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FREE PDF 1000+ Questions Reasoning Ability Table of Contents:

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Details of Memory Based Paper-Reasoning Ability

- ➢ SBI Clerk Mains Memory Based Paper Held on 1st Oct 2021

- ➢ IBPS PO Mains Memory Based Paper Held on 22nd Jan 2022

- ➢ IBPS Clerk Mains Memory Based Paper Held on 25th Jan 2022

- ➢ IBPS RRB PO Mains Memory Based Paper Held on 25th Sep 2021

- ➢ SBI PO Mains Memory Based Paper Held on 2nd Jan 2022

- ➢ IBPS RRB Clerk Mains Memory Based Paper Held on 17thOct 2021

Detailed question analysis with our Mock test/Bundle Course:

SBI Clerk Mains Held on 1st Oct 2021

1) Circular arrangement-**Covered→ IBPS RRB Officer SCALE I Mains 2021 Mock Test 8(30-34), IBPS RRB Office Assistant Mains 2021 Mock Test 1(36-40),IBPS/RRB Clerk Mains Day -10, IBPS/RRB Clerk Mains Day-40**

2) Coding decoding- **Covered→ Most number of Mock and Bundle PDF**

3) Coded direction sense- **Covered →IBPS RRB PO (SCALE I) Mains 2020 Mock Test 5(6-8), IBPS RRB Office Assistant Mains 2020 Mock Test 7(34-35), RRB PO/SBI Clerk Mains Day-2, IBPS PO/SBI PO Mains Day 3**

4) Syllogism (Only a few) - **Covered →Most number of Mock and Bundle PDF**

5) Floor puzzle with conditions-**Not covered→ Given in memory based PDF**

6) Coded inequality- **Covered in→Most number of Mock and Bundle PDF**

7) Box puzzle **Not covered→ Given in memory based PDF**

8) Data sufficiency- **Covered →Most number of Mock and Bundle PDF**

9) Order and ranking with blood relation- **Covered →SBI Clerk 2021 Mains Mock Test –1(180-183), IBPS RRB Officer SCALE I Mains 2021 Mock Test 6(16-18)**

10) Input output (Number based)**-Covered →SBI CLERK mains 2021 mock-1(156-159),IBPS RRB Office Assistant Mains 2021 Mock Test 5(6-9), IBPS/RRB Clerk Mains Day -10, IBPS PO/SBI PO Mains Day-23**

11) Month with year based puzzle-**Covered →SBI clerk mains 2021 mock-7(143-146),SBI PO Mains 2020 Mock Test- 9(25-28), IBPS/RRB Clerk Mains Day -37, RRB PO/SBI Clerk Mains Day-27**

IBPS PO Mains Held on 22nd Jan 2022

1) Linear arrangement- **Covered →IBPS Clerk mains 2021 mock-1 (105-108), RRB Clerk mains 2021 mock-4(11-15), SBI PO & IPBS PO Mains day-27(6-10), RRB Clerk & IBPS Clerk Mains day-6(1-5)**

2) Coded inequality- **Covered → most number of mocks and Bundle PDF**

3) Parallel arrangement (Vertical based)- **Not covered→ Given in memory based PDF**

4) Coded syllogism **Covered → Most number of Mock and Bundle PDF**

5) Table based puzzle- **Covered →IBPS PO mains 2021 mock-7(10-13), RRB PO mains 2021 mock-8(16-19),SBI PO & IPBS PO Mains day-28(11-15),SBI Clerk & IBPS RRB PO Mains day-21(11-15)**

6) Coded direction sense (new type)- **Not covered→ Given in memory based PDF**

7) parallel row with circular arrangement **Not covered→ Given in memory based PDF**

8) Data sufficiency-**Covered→ most number of mocks and bundle PDF**

9) Concentric rectangular arrangement- **Not covered**→ **Given in memory based PDF** 10) Input output (Word and number mixed)- **Covered** →**IBPS PO mains 2021 mock-1(1-4), IBPS Clerk mains 2021 mock-1(130-133), SBI PO & IPBS PO Mains day-45(16-20), RRB Clerk & IBPS Clerk mains day-4(11-15)**

11) Floor with flat puzzle- **Covered** →**RRB Clerk mains 2021 mock-10(15-18), SBI Clerk mains 2021 mock-3(158-160), RRB Clerk & IBPS Clerk Mains day-13(6-10), SBI Clerk & IBPS RRB PO Mains day-34(6-10)**

IBPS Clerk Mains Held on 25th Jan 2022

1) Floor with flat puzzle- **Covered** →**IBPS PO mains 2021 mock-8(11-13), RRB Clerk & IBPS Clerk Mains day-25(1-5), SBI PO & IPBS PO Mains day-17(6-10)**

2) Coded direction sense (new type)- **Covered** →**IBPS Clerk Mains 2021 Mock Test – 1(102-104), IBPS Clerk Mains 2021 Mock Test – 5(117-119), SBI Clerk & IBPS RRB PO Mains day-6(1-5), SBI Clerk & IBPS RRB PO Mains day-17(11-13)(14-15)**

3) Hexagonal based seating arrangement- **Covered** →**RRB Clerk & IBPS Clerk Mains day-21(6-10), SBI Clerk & IBPS RRB PO Mains day-29(16-20)**

4) Coded inequality- **Covered** → **Most number of mocks and Bundle PDF**

5) Linear arrangement- **Covered** →**RRB Clerk mains 2021 mock-2(27-31), RRB Clerk mains 2021 mock-10(8-11), RRB Clerk & IBPS Clerk Mains day-28(11-15), RRB Clerk & IBPS Clerk Mains day-42(11-15)**

6) Coded blood relation- **Covered** →**IBPS Clerk mains 2021 mock-1(128-129), IBPS Clerk mains 2021 mock-7(128-130), RRB Clerk & IBPS Clerk mains day-5(1-3)(4-5), RRB Clerk & IBPS Clerk mains day-19(1-3)(4-5)**

7) Unknown box with stack puzzle- **Covered →IBPS Clerk mains 2021 mock-8(103-107), RRB PO mains 2021 mock-7(10-12), RRB Clerk & IBPS Clerk Mains day-36(6-10), SBI Clerk & IBPS RRB PO Mains day-20(16-20)**

10) Input output (word and number mixed)- **Covered →RRB Clerk mains 2021 mock-2(20-23), SBI Clerk & IBPS RRB PO Mains day-41(6-10), SBI PO & IPBS PO Mains day-5(1-5)**

11) Table based puzzle (new type)- **Not covered→ Given in memory based PDF**

12) Data sufficiency- **Covered →Most number of Mock and Bundle PDF**

13) Unknown month with year based puzzle- **Not covered→ Given in memory based PDF**

IBPS RRB PO Mains Held on 25ᵗʰ Sep 2021

1) Unknown linear arrangement- **Covered →IBPS Clerk mains 2021 mock-4(91-93),IBPS Clerk mains 2021 mock-9(122-124), SBI Clerk & IBPS RRB PO Mains day-10(6-10), RRB Clerk & IBPS Clerk Mains day-7(11-15)**

2) Blood relation- **Covered →RRB PO Mains 2021 mock-3(29-30), RRB PO Mains 2021 mock-10(6-8), SBI Clerk & IBPS RRB PO Mains day-1(6-8)(9-10), SBI PO & IPBS PO Mains day-10(16-18)(19-20)**

3) Month based puzzle- **Covered →RRB PO mains 2021 mock-9(5-9), IBPS PO mains 2021 mock-9(14-17), SBI Clerk &RRBPO mains day-12(16-20), SBI Clerk & RRB PO mains day-45(11-15)**

4) Direction sense- **Covered →RRB PO mains 2021 mock-10(9-10), RRB Clerk mains 2021 mock-3(22-24),SBI Clerk & IBPS RRB PO Mains day-3(11-15), RRB Clerk & IBPS Clerk mains day-30(16-18) (19-20)**

5) Designation puzzle- **Covered →RRB PO mains 2021 mock-8(10-13),IBPS PO mains 2021 mock-5(38-41), SBI Clerk & IBPS RRB PO Mains day-25(1-5), SBI Clerk & IBPS RRB PO Mains day-39(1-5)**

6) Syllogism (Only a few)- **Covered →Most number of Mock and Bundle PDF**

7) Floor with flat puzzle- **Covered →IBPS Clerk mains 2021 mock-1(120-122), IBPS PO mains 2021 mock-8(11-13), SBI Clerk & IBPS RRB PO Mains day-11(6-10),RRB Clerk & IBPS Clerk Mains day-25(1-5)**

8) Data sufficiency- **Covered →Most number of Mock and Bundle PDF**

SBI PO Mains Held on 2ⁿᵈ Jan 2022

1) Circular arrangement with blood relation (2 table based)- **Covered →2019 and 2020 Mocks**

2) Coded direction sense- **Covered →most of the mains mocks and Bundle PDF**

3) Month based puzzle- **Covered →RRB Clerk mains 2021 mock-4(21-24), RRB Clerk mains 2021 mock-10(24-27),SBI PO & IPBS PO Mains day-11(11-15),IBPS PO & SBI PO mains day-30(11-15)**

4) Coded inequality with data sufficiency- **Not covered→ Given in memory based PDF**

5) Unknown linear with distance- **Not covered→ Given in memory based PDF**

6) Input output (word based)- **Covered →IBPS Clerk mains 2021 mock-18(108-111)**

7) Linear arrangement with blood relation- **Covered →IBPS PO mains 2021 mock-5(17-20), SBI PO & IPBS PO Mains day-12(1-5), SBI PO & IPBS PO Mains day-30(1-5)**

8) Coding decoding with filup-**Not covered→ Given in memory based PDF**

9) Arrangement 1, 2 based seating arrangement- **Not covered→ Given in memory based PDF**

Details of Memory Based Paper-Quantitative Aptitude:

- ✓ SBI Clerk Mains Memory Based Paper Held on 1st Oct 2021

- ✓ IBPS PO Mains Memory Based Paper Held on 22nd Jan 2022

- ✓ IBPS Clerk Mains Memory Based Paper Held on 25th Jan 2022

- ✓ IBPS RRB PO Mains Memory Based Paper Held on 25th Sep 2021

- ✓ SBI PO Mains Memory Based Paper Held on 2nd Jan 2022

- ✓ RRB Clerk mains Memory Based Paper Held on 17th October 2021

Detailed Exam analysis:

SBI Clerk Mains Analysis Held on 1st Oct 2021

S.no	Topics	Number of Questions
1	Caselet based on passengers travelled in three Buses	4
2	Bar Graph + Table chart	5
3	Table chart based on books	5
4	Double Pie chart	5
5	Pie Chart + Table chart based on order delivered	5
6	Caselet based on profit and Loss	4
7	Wrong number series –	3
8	Simplification	3
9	Data Sufficiency	3
10	Quantity I and II	3

11	Application Problems	10

IBPS PO Mains Analysis Held on 22nd Jan 2022

S.no	Topics	Number of Questions
1	Logical DI based on Speed, No. of Drifts & No. of Crash	4
2	DI based on Market Value/Share Value	4
3	Missing Table DI based on Mensuration & Pipe & Cistern	4
4	Double pie-chart based on Students	4
5	Data Sufficiency 3 statement based	6
6	Quadratic Equation	2
7	Double Line Number Series	3
8	Time, Speed and Distance	3
9	Application sums	5

IBPS Clerk Mains Analysis Held on 25th Jan 2022

S.no	Topics	Number of Questions
1	Approximation	5
2	Quantity I and II	5
3	Data Interpretation Based on Caselet	14
4	Quadratic Equation	5
5	Application Sums	18

6	Double Line Number Series	3

IBPS RRB PO Mains Analysis Held on 25th Sep 2021

S.no	Topics	Number of Questions
1	Data Interpretation: • Caselet - Company & Vacancies Recruitment • Line Graph • Table DI based on Profit & Loss	15
2	Missing Number Series	5
3	Quantity I and Quantity II	5
4	Application Sums	10
5	Quadratic Equation	5

SBI PO Mains Analysis Held on 2nd Jan 2022

S.no	Topics	No of Questions
1	Caselet based on three different departments in different organizations	5
2	Table Based DI based on SI and CI and Quadratic equation	5
3	Caselet based on Trains	3
4	Time and work based table DI	3
5	Bar Graph based on number of Episodes	5

6	Quadratic Equation	2
7	Missing Number series	2
8	Quantity based	3
9	Data Sufficiency	3
10	Application sums	4

Reasoning Ability

Directions (1-5): Study the following information carefully and answer the below questions.

Seven boxes - A, B, C, D, E, F, and G are kept one above the other on a single stack, but not necessarily in the same order. The lowermost shelf is numbered as one and the topmost shelf is numbered as seven.

Only two boxes are kept between G and C, where either of the boxes is kept on the lowermost shelf. Only one box is kept between the boxes D and C. Both the boxes D and G are kept on adjacent shelves. Box B is kept two boxes above box A. Box A is kept above box G. The number of boxes kept above box E is the same as the number of boxes kept below box F. Box E is kept above box A.

1) How many boxes are kept between A and C?

a) Four

b) Three

c) Two

d) One

e) Five

2) Four of the following five are alike in a certain way and hence form a group. Which of the following one does not belong to that group?

a) BE

b) AG

c) DF

d) FC

e) ED

3) Which of the following statement is/are true with respect to the final arrangement?

a) Only two boxes are kept between B and G

b) Box F is kept immediately above box D

c) No box is kept below box G

d) Box B is kept on an even numbered shelf

e) None of the statements are true

4) Box E is kept on which of the following shelf?

a) Sixth

b) Seventh

c) Fourth

d) Fifth

e) Second

5) As many boxes are kept above box B as below____?

a) Box F

b) Box C

c) Box G

d) Box A

e) Box D

Directions (6-10): Study the following information carefully and answer the below questions.

Eight boxes - P, Q, R, S, T, U, V, and W are kept one above the other on a single stack, but not necessarily in the same order. The lowermost shelf is numbered as one and the topmost shelf is numbered as eight.

Only one box is kept between P and W. Box S is kept immediately above box W. Box R is kept two boxes above box V. Only two boxes are kept between W and V. Boxes R and W are not kept adjacent to each other. Box U is kept immediately above box Q. Box U is kept somewhere below box S.

6) Which of the following box is kept on the fourth shelf?

a) The box which is kept two boxes below box P

b) The box which is kept immediately above box W

c) Box U

d) Box Q

e) Box T

7) How many boxes are kept below box P?

a) One

b) Five

c) Two

d) Three

e) Four

8) Which of the following box is kept three boxes below box T?

a) The box which is kept two boxes above box U

b) The box which is kept two boxes below box S

c) Box R

d) Box W

e) Box P

9) Which of the following statement(s) is/are true with respect to the final arrangement?

I. Box T is kept somewhere below box U.

II. Boxes U and W are kept adjacent to each other

III. Box P is kept on an odd numbered shelf.

a) Both I and II

b) Only III

c) Only II

d) Only I

e) Both II and III

10) If all the boxes are arranged in alphabetical order from the topmost shelf, then how many boxes remain unchanged in its position?

a) None

b) One

c) Two

d) Three

e) Four

Directions (11-15): Study the following information carefully and answer the below questions.

Nine boxes- L, M, N, O, P, Q, R, S, and T are kept one above another on a single stack but not necessarily in the same order. The lowermost shelf is numbered as one and the topmost shelf is numbered as nine.

Only four boxes are kept between T and N, which is kept below box T. Box L is kept two boxes above box T. Only one box is kept between N and O. Box P is kept immediately above box M. The number of boxes kept between M and T is same as the number of boxes kept between Q and S. Box Q is neither kept adjacent to box T nor box N.

11) Which of the following box is kept on the lowermost shelf?

a) Box L

b) Box P

c) Box T

d) Box N

e) Box R

12) Which of the following statement(s) is/are true with respect to the final arrangement?

I) Box L is kept immediately above box S.

II) More than three boxes are kept between Q and S.

III) Only one box is kept between P and S.

IV) No boxes are kept between L and P.

a) Only (I) and (III)

b) Only (I) and (IV)

c) Only (II) and (III)

d) Only (II) and (IV)

e) All (I), (II), (III) and (IV)

13) How many boxes are kept between N and T?

a) Five

b) Four

c) Three

d) Two

e) One

14) If the position of box R and box M interchanged in the same way, the position box M and box T interchanged, then which of the following box is kept immediately below box M?

a) Box Q

b) Box N

c) Box P

d) Box L

e) Box S

15) What is the position of box S from the top?

a) First

b) Second

c) Fifth

d) Fourth

e) Third

Directions (16-20): Study the following information carefully and answer the below questions.

Eight boxes - E, F, G, H, I, J, K, and L are kept one above the other on a single stack, but not necessarily in the same order. The lowermost shelf is numbered as one and the topmost shelf is numbered as eight.

Only three boxes are kept between K and L, where none of the boxes is kept on the lowermost and the topmost shelf. Box K is kept somewhere below box L. The number of boxes kept above box L is the same as the number of boxes kept below box G. Only two boxes are kept between G and J. Box F is kept three boxes above box I. Box H is not kept adjacent to box J.

16) Which of the following box is kept three boxes above box G?

a) Box J

b) Box F

c) Box H

d) Box L

e) Box E

17) Which of the following boxes are kept above box F?

I. Box J

II. Box E

III. Box G

IV. Box I

a) Only I and IV

b) Only I and III

c) Only III and IV

d) Only II and III

e) Only I and II

18) Which of the following combination is true with respect to the final arrangement?

a) Second-Box G

b) Third- Box J

c) Eighth-Box L

d) First-Box K

e) Fifth-Box F

19) How many boxes are kept above box L?

a) Two

b) Three

c) One

d) Four

e) Five

20) Four of the following five are alike in a certain way and hence form a group. Which of the following one does not belong to that group?

a) Box H

b) Box E

c) Box F

d) Box I

e) Box G

Answer Key with Explanation

Directions (1-5):

1) Answer: B

2) Answer: E

3) Answer: A

4) Answer: A

5) Answer: B

Final Arrangement

Shelf	Boxes
7	B
6	E
5	A
4	G
3	D
2	F
1	C

We have,

- Only two boxes are kept between the boxes G and C, where either of the boxes is kept on the lowermost shelf.
- Only one box is kept between the boxes D and C.
- Both the boxes D and G are kept on adjacent shelves.

From the above condition, there are two possibilities.

Case-1	Case-2
G	C
D	
	D
C	G

Again we have,

- Box B is kept two boxes above box A.
- Box A is kept above box G.
- The number of boxes kept above box E is the same as the number of boxes kept below box F.
- Box E is kept above box A.

From the above condition, case-2 gets eliminated. Case-1 shows the final arrangement.

Shelf	Case-1	Case-2
7	B	
6	E	
5	A	
4	G	C
3	D	
2	F	D
1	C	G

Directions (6-10):

6) Answer: B

7) Answer: E

8) Answer: A

9) Answer: E

10) Answer: A

Final Arrangement

Shelf	boxes
8	R
7	T
6	V
5	P
4	S
3	W
2	U
1	Q

We have,

- Only one box is kept between P and W.
- Box S is kept immediately above box W.

From the above condition, there are two possibilities

Case 1	Case 2
P	S
S	W
W	
	P

Again we have,

- Box R is kept two boxes above box V.
- Only two boxes are kept between W and V.
- Boxes R and W are not kept adjacent to each other.

Case 1	Case 2
	R
R	
	V
V	
P	S
S	W
W	
	P

Again we have,

- Box U is kept immediately above box Q.
- Box U is kept somewhere below box S.

From the above condition, case-2 gets eliminated. Case-1 shows the final arrangement.

Case-1	Case-2
R	R
T	
V	V
P	
S	S
W	W
U	
Q	P

Directions (11-15):

11) Answer: D

12) Answer: A

13) Answer: B

14) Answer: C

15) Answer: E

Final Arrangement

Shelf	Boxes
9	Q
8	L
7	S
6	T
5	P
4	M
3	O
2	R
1	N

We have,

- Only four boxes are kept between T and N, which is kept below box T.
- Box L is kept two boxes above box T.

From the above condition, there are two possibilities.

	Case-1	Case-2
9	L	
8		L
7	T	
6		T
5		
4		
3		
2	N	
1		N

Again we have,

- Only one box is kept between N and O.
- Box P is kept immediately above box M.
- The number of boxes kept between M and T is same as the number of boxes kept between Q and S.
- Box Q is neither kept adjacent to box T nor box N.

From the above condition, case-1 gets eliminated. Case-2 shows the final arrangement.

	Case-1	Case-2
9	L	Q
8	R	L
7	T	S
6	P	T
5	M	P
4	O	M
3	Q/S	O
2	N	R
1	Q/S	N

Directions (16-20):

16) Answer: A

17) Answer: E

18) Answer: A

19) Answer: C

20) Answer: D

Final Arrangement

Shelf	Boxes
8	H
7	L
6	E
5	J
4	F
3	K
2	G
1	I

We have,

- Only three boxes are kept between the boxes K and L, where none of the box is kept on the lowermost and the topmost shelf.
- Box K is kept somewhere below box L.

From the above condition, there are two possibilities.

	Case-1	Case-2
8		
7		L
6	L	
5		
4		
3		K
2	K	
1		

Again we have,

- The number of boxes kept above box L is the same as the number of boxes kept below box G.
- Only two boxes are kept between the boxes G and J.

From the above condition, case-1 gets eliminated.

	Case-1	Case-2
8		
7		L
6	L	
5		J
4		
3	G	K
2	K	G
1		

Again we have,

- Box F is kept three boxes above box I.
- Box H is not kept adjacent to box J.

From the above condition, case-2 shows the final arrangement.

	Case-2
8	H
7	L
6	E
5	J
4	F
3	K
2	G
1	I

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Reasoning Ability

Directions (1-4): Study the following information carefully and answer the below questions

286 948 567 763 842

1) If all the digits are written in ascending order within the number, then which of the following number will become the highest number?

a) 367

b) 268

c) 489

d) 567

e) 248

2) If the second digit of each number is dropped and the first and last digits are interchanged, then which of the following will be the lowest number?

a) 286

b) 948

c) 567

d) 763

e) 842

3) If all the numbers are added within the number, then how many numbers are completely divisible by three?

a) 1

b) 2

c) 3

d) 4

e) None

4) What is the sum of the second digit of the second-highest number and the third digit of the lowest number?

a) 10

b) 9

c) 12

d) 8

e) 6

Directions (5-9): Study the following information carefully and answer the questions given below.

Eight persons viz. A, B, C, D, E, F, G, and H are standing in a straight line such that all of them are facing towards the north, but not necessarily in the same order.

G stands fourth to the left of C and immediate right of E. Only two persons stand between G and F, who doesn't stand at any of the ends. More than three persons stand between F and B, who stands third to the left of D. At most two persons stand between A and H, who is not the immediate neighbor of D.

5) Who among the following person stands second to the right of F?

a) C

b) D

c) H

d) No such person

e) None of these

6) What is the position of E with respect to A?

a) Immediate right

b) Third to the left

c) Sixth to the left

d) Third to the right

e) None of these

7) In which of the following option does the first person stands to the immediate right of the second person?

a) FC

b) EG

c) HB

d) AD

e) None of these

8) How many persons stand between A and B?

a) One

b) Two

c) Three

d) More than three

e) No one

9) Which of the following pair of persons stand at the ends of the straight line?

a) B, H

b) C, B

c) A, E

d) E, B

e) None of these

Directions (10-11): Study the following information carefully and answer the below questions

Shankar starts walking from point X towards the north, after walking for 6m he reaches point M

where he turns to the east direction and walks for 7m to reach point G where he turns to the north and walks for 10m to reach P. Then he turns to the left and walks for 15m to reach point Q where he turns to the right and walks for 5m to reach Point S and stops.

10) What is the direction of S with respect to G?

a) East

b) North-east

c) North-west

d) South-east

e) South-west

11) If Point L is west of Point X and South of Point Q then what is the distance between Point S and Point L?

a) 17m

b) 18m

c) 20m

D) 21m

e) 22m

Directions (12-16): Study the following information carefully and answer the below questions

Eight persons- C, D, E, F, G, H, I, and J were born in different months- March, May, June, August, September, October, November, and December of the same year.

G was born in the month which has an even number of days. C was born two persons before G. Only three persons were born between C and D. The number of persons born before D is the same as the number of persons born after E. F was born three months before I. H was born before J.

12) Four of the following are alike in a certain way and hence form a group. Who among the following does not belong to the group?

a) The one who was born immediately before F

b) F

c) J

d) The one who was born two persons before G

e) E

13) If all the persons are arranged in alphabetical order from March, then how many persons remain unchanged in their position?

a) Three

b) Two

c) One

d) None

e) More than three

14) Who among the following person was born in October?

a) The one who was born immediately after F

b) The one who was born immediately before G

c) D

d) F

e) I

15) H was born in which of the following month?

a) September

b) August

c) May

d) June

e) December

16) How many persons were born between D and C?

a) As many persons were born between F and E

b) Four

c) Three

d) As many persons were born between I and G

e) One

Directions (17-19): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

17)Statements:

Only a few Admin are Control

All controls are Operation

No Operation is Handling

Conclusions:

I. Some Handlings can be Control

II. Some admin are not Control

a) Only I follows

b) Either I or II follows

c) Only II follows

d) Both I and II follow

e) Neither I nor II follows

18) Statements:

Only a few Manages are Supervise

No Supervise is Regulation

Some Regulations are Guide

Conclusions:

I. Some Supervises can be Guide

II. Some Manages are not Regulation

a) Only I follows

b) Either I or II follows

c) Only II follows

d) Both I and II follow

e) Neither I nor II follows

19)Statements:

Only a few Monitors are Plan

All Monitors are Audit

No Audit is Organise

Conclusions:

I. All Organise can be Plan

II. Some Audits being Plan is a possibility

a) Only I follows

b) Either I or II follows

c) Only II follows

d) Both I and II follow

e) Neither I nor II follows

Directions (20-24): Study the following information carefully and answer the questions given below.

Eight persons P, Q, R, S, T, U, V, and W are sitting in a square table such that four persons are sitting in the middle of the sides and facing the center of the table while four persons are sitting in the corners and facing away from the center of the table.

Q sits second to the right of V. One person sits between Q and R. Two persons sit between R and P, who is not an immediate neighbor of Q.

W sits third to the right of S, who is neither facing center nor an immediate neighbor of P. U is not an immediate neighbor of Q.

20) How many persons sit between T and S, when counted from the right of S?

a) One

b) Two

c) Three

d) Four

e) Five

21) What is the position of V with respect to U?

a) Third to the left

b) Second to the right

c) Fifth to the right

d) Both A & B

e) Both A & C

22) If the persons are arranged in alphabetical order starting from P in a clockwise direction, then how many persons remain in the same position including P?

a) One

b) Two

c) Three

d) Four

e) No one

23) Four of the following five are alike in a certain way and thus form a group as per the given arrangement. Which of the following does not belong to that group?

a) WQ

b) PT

c) SU

d) VQ

e) RV

24) Which of the following statements is/ are true?

a) T sits second to the right of S

b) Only three persons sit between P and T

c) W and T are facing the center of the table

d) U and Q are sitting on the corner of the table

e) None is true

Directions (25-28): Study the following information carefully and answer the below questions.

In a certain code language

'Microphone Mouse Player Webcam' means 'ax hs mt vo',

'Webcam Floppy Disk Digital' means 'lt rq vm hs',

'Router Mouse Disk Printer' means 'vo rq pg uz',

'Floppy Microphone Hard Drive' means 'lt ax mh yl'

25) What is the code for 'Player'?

a) mt

b) hs

c) vo

d) ax

e) None of these

26) What is the code for 'disk microphone'?

a) rq ax

b) lt hs

c) vo ax

d) vo lt

e) rq hs

27) What does "pg" represent in a code language?

a) Printer

b) Disk

c) Mouse

d) Router

e) Either a or d

28) If "Hard Mouse" represents a code "vo yl" then what does "mh vm hs" represent in a code language?

a) Webcam Digital Printer

b) Drive Floppy Digital

c) Webcam Pinter Floppy

d) Drive Digital Webcam

e) Drive Floppy Router

Directions (29-33): Answer the questions based on the information given below.

Eight boxes viz. M, N, O, P, Q, R, S and T are kept one above the other in a single stack, but not necessarily in the same order. The lowermost position is numbered as 1 and the topmost position is numbered as 8.

Box M is kept in an odd-numbered position and two boxes above box O. The number of boxes kept above box R is the same as the number of boxes kept below box P which is kept

immediately above box M. Only Four boxes are kept between N and Q which is kept immediately above box O. Box S is kept above box T.

29) How many boxes are there between M and N?

a) 3

b) 5

c) 2

d) 6

e) None of these

30) What is the position of box S with respect to box P?

a) Three boxes above

b) Immediately below

c) Four boxes above

d) Four boxes below

e) None of these

31) Which of the following box is kept at 6th position?

a) Box O

b) Box N

c) Box M

d) Box T

e) Box Q

32) Which of the following box is kept immediately above box P?

a) Box S

b) Box R

c) Box T

d) Box N

e) None of these

33) What is the position of box N?

a) 4th

b) 8th

c) 7th

d) 2nd

e) None of these

34) If the vowels in the word "UNDERSTAND" are changed to the next letter and consonants are changed to the previous letter in the alphabetical series then how many vowels are there in the new arrangement?

a) None

b) More than three

c) Three

d) Two

e) One

35) How many pairs of digits are there in the number "738251469" each of which has as many digits between them in the series as in the natural number series (both forward and backward direction)?

a) Two

b) One

c) Four

d) None

e) Three

Answer Key with Explanation

1) Answer: D

Given series

286 948 567 763 842

268 489 **567** 367 248

2) Answer: E

Given series

286 948 567 763 842

62 89 75 37 **28**

3) Answer: B

Given series

286 948 567 763 842

16 **21 18** 16 14

4) Answer: A

Given series

28**6** 948 567 763 8**4**2

6+4=10

Directions (5-9):

5) Answer: C

6) Answer: B

7) Answer: D

8) Answer: C

9) Answer: A

B E G D A F C H

1. G stands fourth to the left of C and immediate right of E. Only two persons stand between G and F, who doesn't stand at any of the ends.

Case 1:
E G F C

Case 2:
E G F C

Case 3:
E G F C

2. More than three persons stand between F and B, who stands third to the left of D. At most two persons stand between A and H, who is not the immediate neighbor of D. Hence, cases 1 and 3 get eliminated.

Case 1:
E G F C

Case 2:
B E G D A F C H

Case 3:
B E G D F C
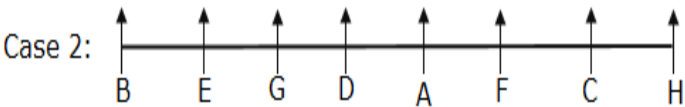
Directions (10-11):

10) Answer: C

11) Answer: D
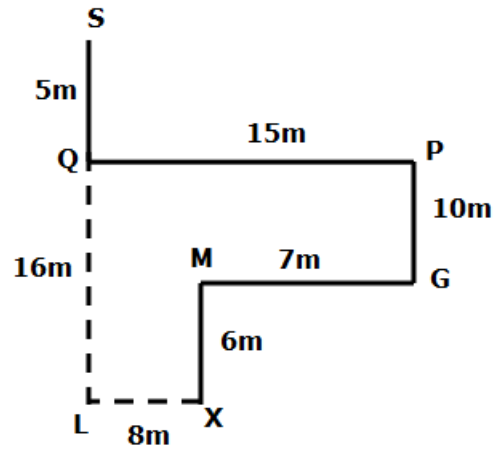
Directions (12-16):

12) Answer: D (all are born in the month with an odd number of days except option d)

13) Answer: D

14) Answer: B

15) Answer: D

16) Answer: C

Final Arrangement

Month	Person
March	D
May	F
June	H
August	I
September	C
October	J
November	G
December	E

We have,

- G was born in the month which has an even number of days.
- C was born two persons before G.

From the above condition, there are three possibilities.

Month	Case1	Case2	Case3
March	C		
May			
June	G	C	
August			
September		G	C
October			
November			G
December			

Again we have,

- Only three persons were born between C and D.

The number of persons born before D is the same as the number of persons born after E.

Month	Case1	Case2	Case3
March	C		D
May		E	
June	G	C	
August	E		
September	D	G	C
October			
November		D	G
December			E

Again we have,

- F was born three months before I.
- H was born before J.

From the above condition, case1 and case2 get eliminated. case3 shows the final arrangement.

Month	Case1	Case2	Case3
March	C		D
May		E	F
June	G	C	H
August	E		I
September	D	G	C
October			J
November		D	G
December			E

17) Answer: C
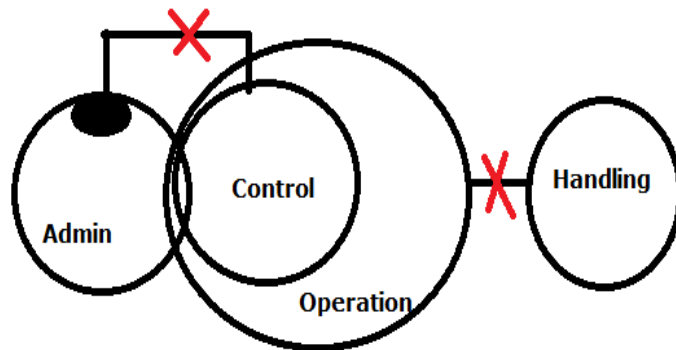
Only II follows

18) Answer: D
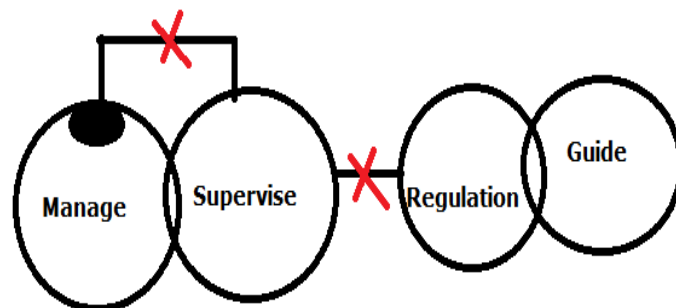
Both I and II follow

19) Answer: A
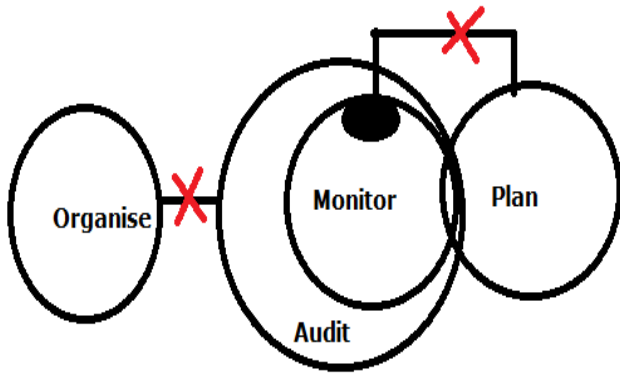
Only I follows

Directions (20-24):

20) Answer: E

21) Answer: E

22) Answer: B

23) Answer: D (in all cases both persons are sitting opposite to each other except option D)

24) Answer: B

Final arrangement:
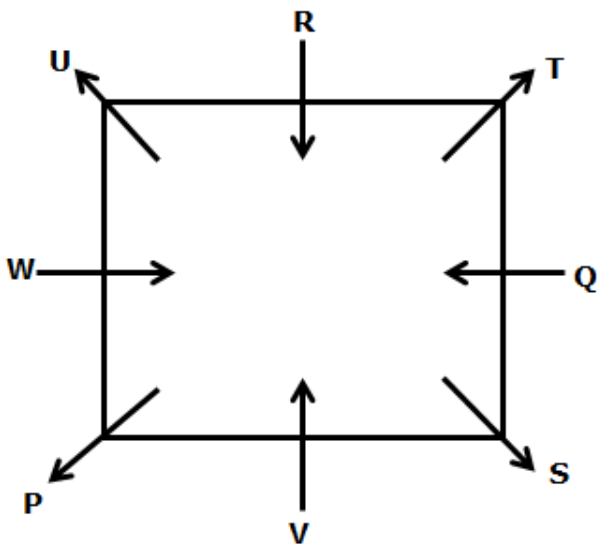
We have,

Q sits second to the right of V.

One person sits between Q and R.

Two persons sit between R and P, who is not an immediate neighbor of Q.
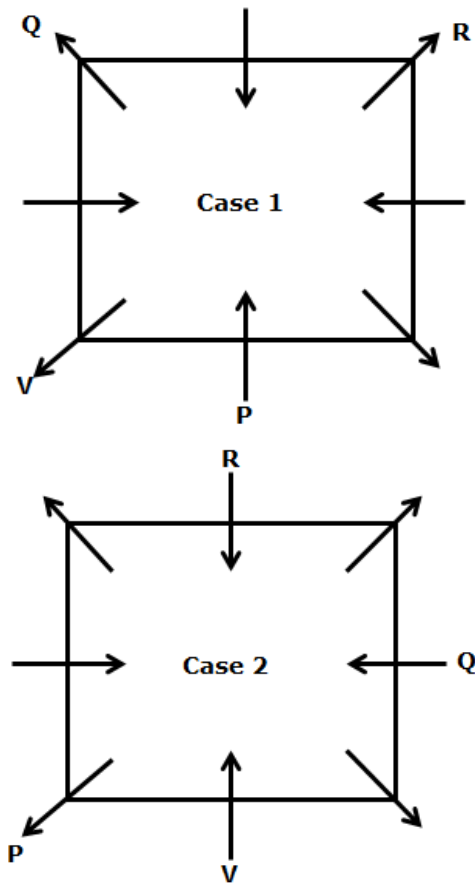
Again we have,

W sits third to the right of S, who is neither facing center nor an immediate neighbor of P.

U is not an immediate neighbor of Q.

Case 1

Case 2
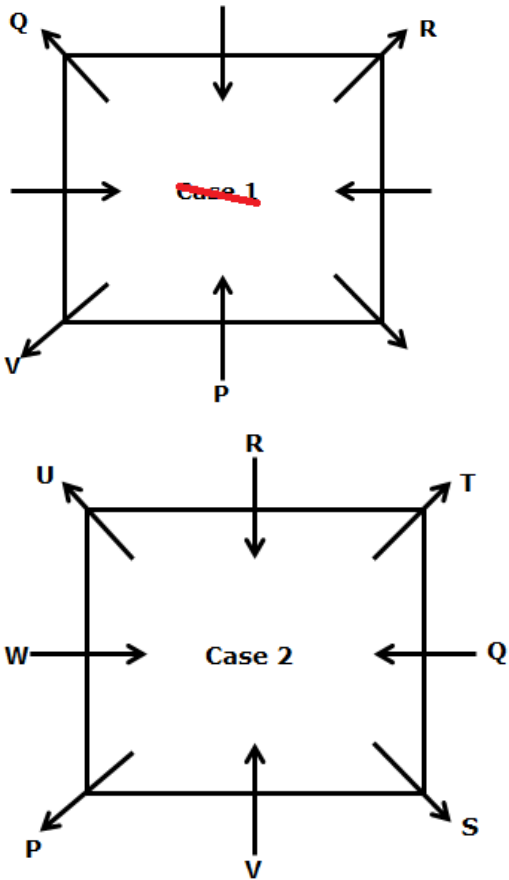
Directions (25-28):

25) Answer: A

26) Answer: A

27) Answer: E

28) Answer: D

Words	Code
Microphone	Ax
Mouse	Vo
Player	Mt
Webcam	Hs
Floppy	Lt
Disk	Rq
Digital	Vm
Router/Printer	Pg/uz
Hard/Drive	Mh/yl

Directions (29-33):

29) Answer: A

30) Answer: C

31) Answer: D

32) Answer: B

33) Answer: C

position	Box
8	S
7	N
6	T
5	R
4	P
3	M
2	Q
1	O

1. Box M is kept in an odd numbered position and two boxes above box O.

2. The number of boxes kept above box R is the same as the number of boxes kept below box P which is kept immediately above box M.

	Case 1	Case 2
	Box	Box
8		P
7		M
6		
5	R	O
4	P	
3	M	
2		
1	O	R

3. Only Four boxes are kept between N and Q which is kept immediately above box O.

4. Box S is kept above box T. Hence, case 2 gets eliminated.

	Case 1	~~Case 2~~
	Box	Box
8	S	P
7	N	M
6	T	Q
5	R	O
4	P	
3	M	
2	Q	
1	O	R

34) Answer: A

UNDERSTAND

VMCFQRSBMC

35) Answer: E

7 3 8 2 5 1 4 6 9

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Reasoning Ability

SBI CLERK PRELIMS REASONING ABILITY MEMORY BASED PAPER-2021

Directions (1-4): Study the following information carefully and answer the below questions.

Eight persons- A, B, C, D, E, F, G, and H are sitting in a linear row facing the north direction but not necessarily in the same order.

C sits sixth to the left of D. Both E and C are sitting adjacent to each other. B sits third to the right of E. Both F and D are sitting adjacent to each other. A sits fifth to the left of F. Both G and A are not sitting adjacent to each other.

1) As many persons sit between A and C as the persons sit between F and ___?

a) B

b) G

c) H

d) E

e) None of the above

2) Which of the following statement is true?

a) B sits immediate left of G

b) No one sits between E and H

c) More than two persons sit to the right of D

d) C sits second to the left of H

e) None of the statements is false

3) How many persons sit between B and C?

a) Two

b) Three

c) One

d) Four

e) None

4) Who among the following person sits third from the right end?

a) D

b) G

c) F

d) H

e) A

Directions (5-7): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

5) Statements:

Only a few Speakers are Mobile

All Mobiles are Laptop

No Laptop is Headphone

Conclusions:

I. No mobile is Headphone

II. Some Speakers are Laptops

a) Only I follows

b) Either I or II follows

c) Only II follows

d) Both I and II follow

e) Neither I nor II follows

6) Statements:

Only a few Blenders are Ovens

Some Ovens are Kettle

Some Kettles are Mixer

Conclusions:

I. No Oven is Mixer

II. Some Mixers are Ovens

a) Only I follows

b) Either I or II follows

c) Only II follows

d) Both I and II follow

e) Neither I nor II follows

7) Statements:

Only a few Microwaves are Toast Machines

All Toast Machines are Lamp

All Microwaves are Dish Washer

Conclusions:

I. Some Dishwashers being lamp is a possibility

II. Some Lamps are Microwaves

a) Only I follows

b) Either I or II follows

c) Only II follows

d) Both I and II follow

e) Neither I nor II follows

Directions (8-11): Study the following information carefully and answer the questions given below.

K 1 ^ X 6 2 M 3 H € 0 T * N I & A % 5 F @ V 4 ®
B Y G $ 8 L D # U 7 R 9 ©

8) How many numbers are immediately preceded by an alphabet and immediately followed by a symbol?

a) Four

b) Three

c) Two

d) One

e) None

9) What will be the resultant if all the numbers in the series are added and then divided by 5?

a) 5

b) 7

c) 8

d) 9

e) None of these

10) If the first two elements from the left end are removed, then how many letters are immediately preceded by a symbol and immediately followed by a number?

a) One

b) Two

c) Three

d) More than three

e) None

11) Which of the following element is seventh to the left of the seventeenth element from the right end?

a) 4

b) T

c) 3

d) €

e) None of these

Directions (12-16): Study the following information carefully and answer the below questions.

Eight persons - A, B, C, D, E, F, G and H are purchasing the things one after another, but not necessarily in the same order.

Only three persons purchased between B and H. Only one person purchased between E and B, who purchased before E. Only four persons purchased between E and A, who purchased before E. Only three persons purchased between C and D. D purchased before H but not after B. F purchased before G, who does not purchase before C.

12) Who among the following person purchased immediately before F?

a) D

b) B

c) H

d) A

e) G

13) Four of the five among the following are similar in such a way to form a group, who among the following doesn't belong to the group?

a) DH

b) HA

c) GE

d) CB

e) EF

14) How many persons purchased before F?

a) Three

b) Two

c) One

d) Four

e) None

15) Which of the following statement is/are true?

a) Only one person purchased between E and H

b) G purchased before A

c) No one purchased before C

d) B purchased three persons after H

e) No one purchased between G and E

16) B was purchased as the____ person.

a) Sixth

b) Fifth

c) Fourth

d) Seventh

e) None of these

Directions (17-21): Study the following information carefully and answer the below questions

Ten persons are sitting in two parallel rows and facing each other. In row1, U, V, W, X, and Y are sitting and facing south while In row2- A, B, C, D, and E are sitting and facing north but not necessarily in the same order.

C sits third to the left of D. Only one person sits between D and A. U sits second to the right of W. U neither sits opposite to A nor C. Both W and X are immediate neighbours. B neither sits opposite to U nor Y. The number of persons sitting between E and D is the same as between V and Y. Y sits to the left of V.

17) Which of the following statement does the first person sits to the immediate left of the second person?

I. AE

II. XU

III. VY

a) Only II

b) Only I and II

c) Only III

d) All I, II, and III

e) None of these

18) Four of the five among the following are similar in such a way to form a group, who among the following doesn't belong to the group?

a) C

b) The one who sits second to the right of E

c) V

d) W

e) Y

19) Who among the following person sits opposite to E?

a) The one who sits immediate left of Y

b) The one who sits immediate right of W

c) V

d) Y

e) W

20) Who among the following person sits immediate right of X?

a) W

b) U

c) V

d) Y

e) None of these

21) How many persons sit to the right of A?

a) Three

b) Two

c) One

d) None

e) Four

Directions (22-24): Study the following information carefully and answer the below questions

A person from Point A walks towards the south direction, after walking 8km he reaches point B where he turns to the left and walks for 4km to reach point C where he turns to the right and walks for 5km to reach point D where he turns to the east direction and walks for 8m to reach point E where he turns to the left and walks for 5km to reach point F where he turns to the right and walks for 4km to reach point G then finally he turns to the north direction and walks for 8km to reach point H.

22) What is the direction of E with respect to B?

a) South-west

b) South-east

c) North-east

d) North-west

e) South

23) What is the direction and distance of H with respect to A?

a) 15km towards the east

b) 16km towards the west

c) 16km towards the east

d) 14km towards the west

e) 15km towards the west

24) What is the direction of H with respect to C?

a) South-west

b) South-east

c) North-east

d) North-west

e) South

25) How many pairs of letters are there in the word "CONDITION" each of which has as many letters between them in the word as in the English alphabetical series (both forward and backward direction)?

a) One

b) Two

c) Four

d) None

e) Three

26) How many four letter meaningful words can be formed from the third, fourth, eighth, and eleventh letter from the left end of the word "CONSECUTIVE" (Each letter used only once)?

a) One

b) Two

c) Four

d) None

e) Three

Directions (27-31): Study the following information carefully and answer the below questions.

Eight persons- A, B, C, D, E, F, G, and H are sitting around a circular table facing the centre but not necessarily in the same order.

A sits second to the right of C. Two persons sit between D and C. E sits immediate right of H. Both D and H are immediate neighbours. One person sits between H and G. F sits second to the right of B. Both B and A are not immediate neighbours.

27) Who among the following sits immediate right of G?

a) E

b) B

c) H

d) F

e) None of these

28) Who among the following person sits opposite to H?

a) A

b) E

c) C

d) F

e) B

29) If H is related to D and A is related to F in a certain way. Then, who among the following is related to B?

a) H

b) E

c) G

d) C

e) None of these

30) How many persons are sitting between D and G when counted to the right of D?

a) None

b) Two

c) Three

d) Four

e) One

31) Which of the following statement(s) is/are true?

a) Only three persons sit between A and B

b) E sits second to the right of B

c) D sits opposite to C

d) G and E are not immediate neighbours

e) C sits immediate left of F

Directions (32-34): In each of the following questions, the relationship between different elements is shown in the statements followed by two conclusions. Find the conclusion which is definitely true.

a) If only conclusion I is true.

b) If only conclusion II is true.

c) If either conclusion I or II is true.

d) If neither conclusion I nor II is true.

e) If both conclusions I and II are true.

32) Statements:

M≥Q=R>W=X≤O

Conclusions:

I. M>W

II. X<Q

33) Statements:

I=K>D≥L<J=Y

Conclusions:

I. L≤I

II. D>Y

34) Statements:

O≥Q≤S≥W=B≥F=H≤N

Conclusions:

I. S>F

II. H=S

35) Six persons- A, B, C, D, E, and F are sitting in the linear row facing the north but not necessarily in the same order. Only one person sits between A and D. B sits third to the right of C. Only one person sits between A and B. E neither sits adjacent to A nor D. Who among the following person sits second to the right of F?

a) B

b) E

c) A

d) C

e) D

Answer Key with Explanation

Directions (1-4):

1) Answer: B

2) Answer: A

3) Answer: B

4) Answer: B

Final Arrangement
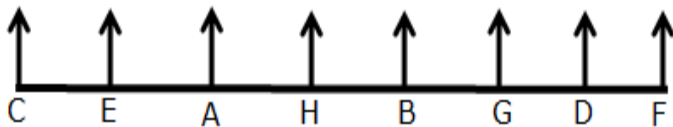
- C sits sixth to the left of D.
- Both E and C are sitting adjacent to each other.
- B sits third to the right of E.
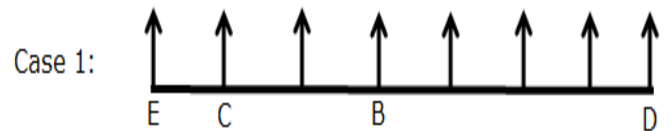
- Both F and D are sitting adjacent to each other.
- A sits fifth to the left of F.
- Both G and A are not sitting adjacent to each other.

Hence, cases 1 and 1a get eliminated.

Case 1:

Case 1a:

Case 2:
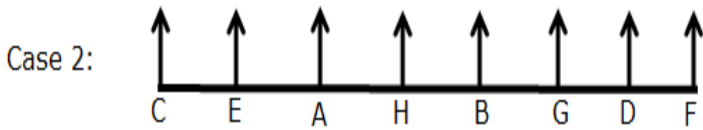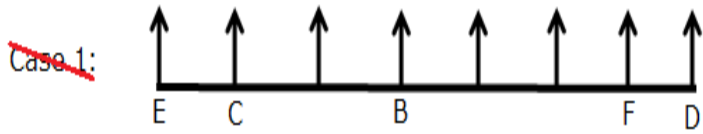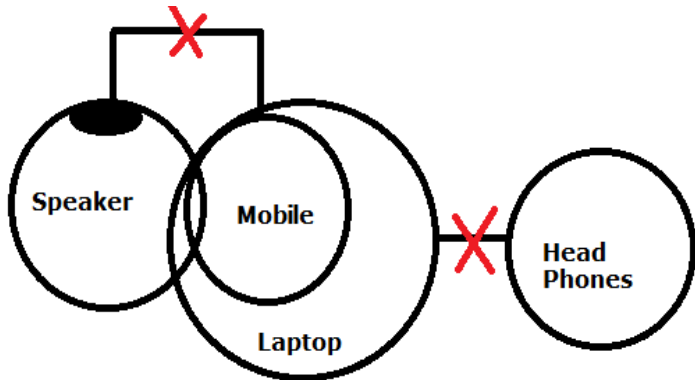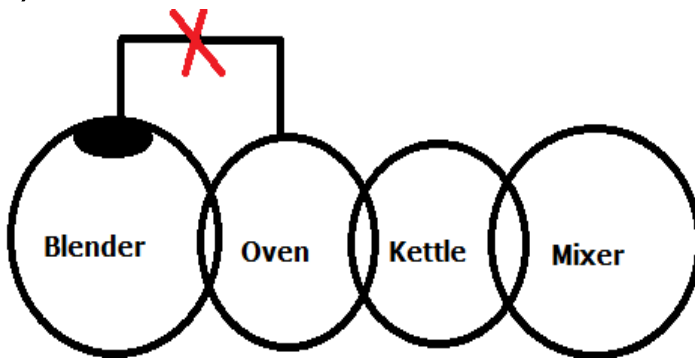
5) Answer: D

6) Answer: B

7) Answer: C
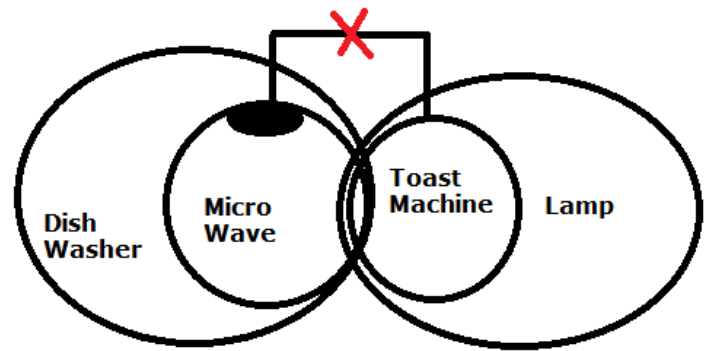
Directions (8-11):

8) Answer: B

9) Answer: D

10) Answer: C

11) Answer: E (i.e. N)

Directions (12-16):

12) Answer: D

13) Answer: E

14) Answer: A

15) Answer: E

16) Answer: A

Final Arrangement

Person
D
H
A
F
C
B
G
E

- Only three persons purchased between B and H.

- Only one person purchased between E and B, who purchased before E.
- Only four persons purchased between E and A, who purchased before E.

Case 1	Case 2
A	H
	A
B	
	B
E	
	E
H	

- Only three persons purchased between C and D.
- D purchased before H but not after B.
- F purchased before G, who does not purchase before C.

Hence case 2 gets eliminated.

~~Case 1~~	Case 2
A	D
	H
	A
B	F
	C
E	B
	G
H	E

Directions (17-21):

17) Answer: B

18) Answer: E

19) Answer: A

20) Answer: B

21) Answer: A

Final Arrangement
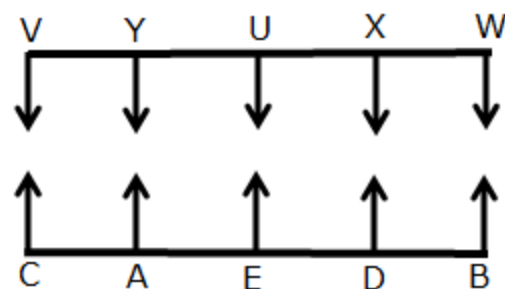
- C sits third to the left of D.
- Only one person sits between D and A.
- U sits second to the right of W.
- U neither sits opposite to A nor C.
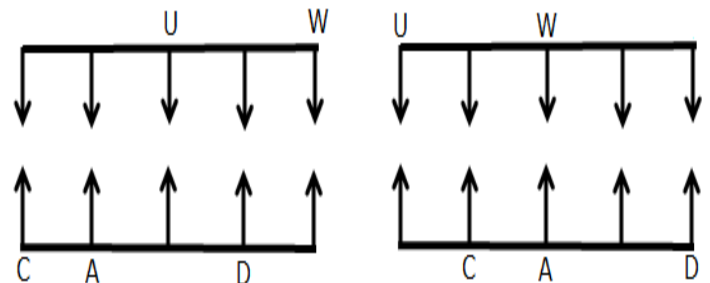
Case 1   Case 2

- Both W and X are immediate neighbours.
- B neither sits opposite to U nor Y.
- The number of persons sitting between E and D is the same as between V and Y.
- Y sits to the left of V.

Hence, cases 2 and 2a get eliminated.

Case 1   Case 2   Case 2a
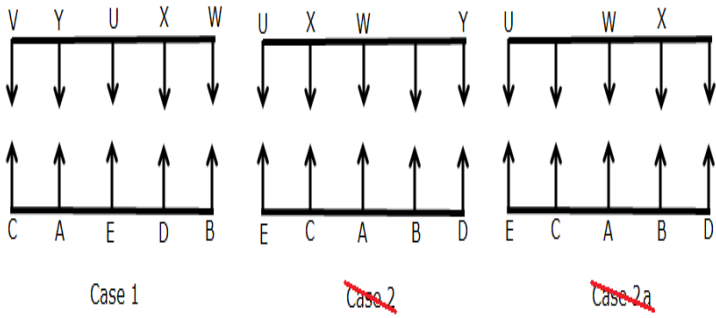
Directions (22-24):

22) Answer: B

23) Answer: C

24) Answer: C

Final Arrangement

25) Answer: E

C O N D I T I O N
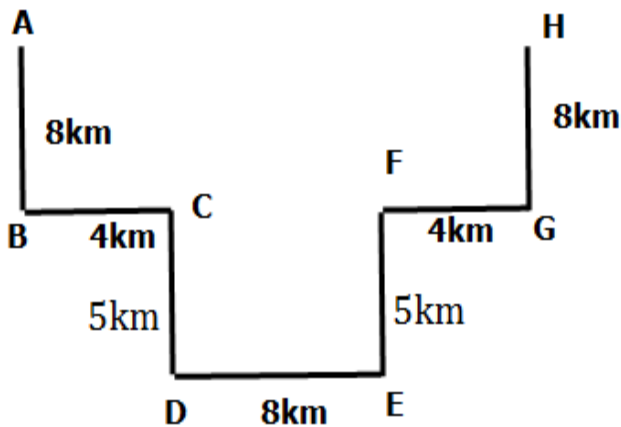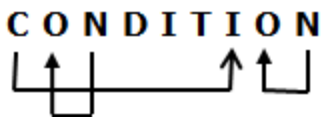
26) Answer: C

CONSECUTIVE

SENT, NEST, NETS and TENS.

Directions (27-31):

27) Answer: B

28) Answer: C

29) Answer: D

30) Answer: B

31) Answer: E

Final Arrangement
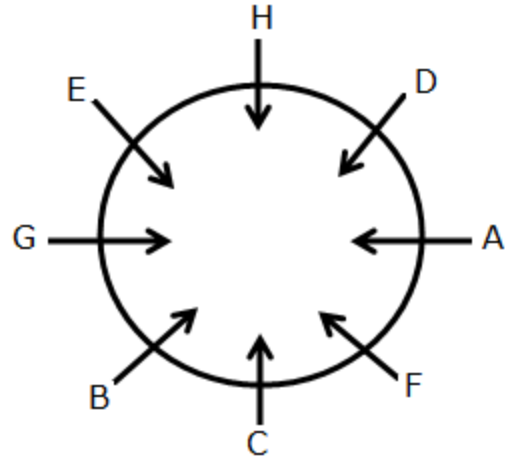
- A sits second to the right of C.
- Two persons sit between D and C.
- E sits immediate right of H.
- Both D and H are immediate neighbours.

Case 1   Case 2
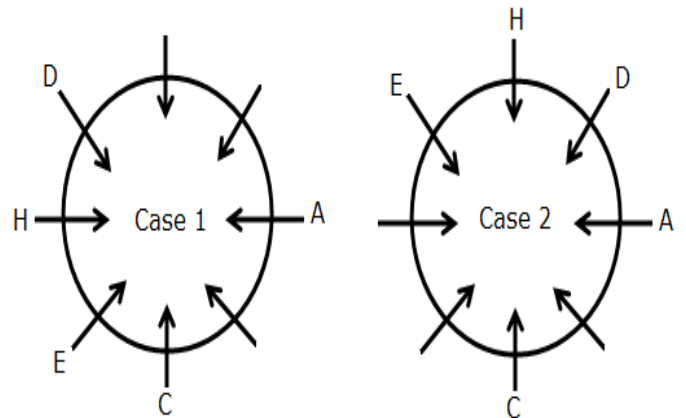
- One person sits between H and G.
- F sits second to the right of B.
- Both B and A are not immediate neighbours.

Hence, case 1 gets eliminated.
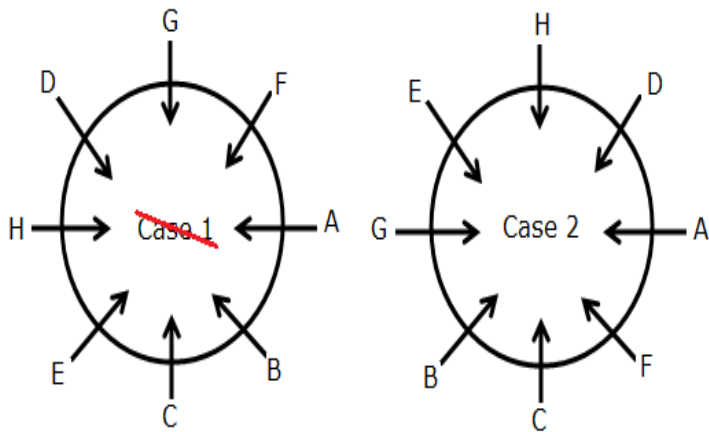
32) Answer: E

I. M>W   => (M≥Q=R>W) = True

II. X<Q   => (Q=R>W=X) = True

33) Answer: D

I. L≤I   => (I=K>D≥L) = False

II. D>Y   => (D≥L<J=Y) = False

34) Answer: C

I. S>F => (S≥W=B≥F) = False

II. H=S   => (S≥W=B≥F=H) = False

But either I or II follows when both are combined.

(S≥F=H)

35) Answer: B
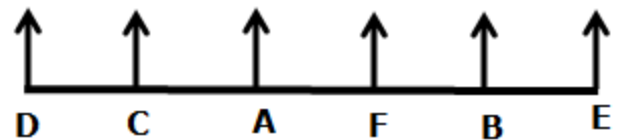
SBI CLERK PRELIMS REASONING ABILITY MEMORY BASED PAPER-2020

Directions (1-5): Study the following information carefully and answer the questions given below.

Eight persons are working in a company with different grade positions such as CEO, MD, GM, DGM, Senior Manager, Manager, Assistant Manager and Clerk. Their positions are given in descending order, such as CEO is the highest position and Clerk is the lowest position.

B is a manager. Only two persons hold the position between A and B. Only one person holds the position between A and C. More than four persons hold the position between C and H. As many persons senior to C as persons junior to D. E is junior to F and senior to G.

1) What is the designation of D?

a) Senior Manager

b) Clerk

c) Assistant Manager

d) Cannot be determined

e) CEO

2) How many persons hold the position between B and A?

a) As many persons holding the position between E and G

b) Four

c) As many persons holding the position between C and G

d) Two

e) None of the above

3) How many persons have higher grade positions than C?

a) Two

b) Four

c) Three

d) One

e) C holds the highest position

4) Who among the following person is the General Manager?

a) C

b) F

c) G

d) D

e) A

5) The number of persons holding the position higher than F is the same as lower than _____?

a) B

b) E

c) G

d) D

e) H

Directions (6-8): In each of the following questions, the relationship between different elements is shown in the statements followed by two conclusions. Find the conclusion which is definitely true.

Given answer:

a) If only conclusion I follows.

b) If only conclusion II follows.

c) If either conclusion I or II follows.

d) If neither conclusion I nor II follows.

e) If both conclusions I and II follow.

6) Statements:

$X \geq Y > S \leq I \leq N$

Conclusion:

I. $X \geq N$

II. $N > S$

7) Statements:

$C \leq D < L \leq F \geq G; K \geq L > M$

Conclusion:

I. $K > D$

II. $F > C$

8) Statements:

$A \leq B \leq C > D, K \geq C > M$

Conclusion:

I. $K > A$

II. $K = A$

Directions (9-11): Study the following information carefully and answer the below questions.

Point G is 20m to the south of point D. Point E is 20m to the east of point G. Point A is 10m to the north of point E. Point C is 30m to the west of point A. Point F is 20m to the south of point C. Point B is 10m to the east of point F.

9) In which of the following direction is point F with respect to point G?

a) North

b) South-West

c) South-East

d) West

e) North-West

10) What is the shortest distance between points D and B?

a) 35

b) 15

c) 25

d) 30

e) None of these

11) Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

a) C-G

b) D-F

c) D-E

d) C-B

e) D-A

Directions (12-15): Study the following information carefully and answer the below questions.

526   354   128   786   329

12) What is the resultant if the second digit of the highest number is divided by the second digit of the lowest number?

a) 3

b) 4

c) 8

d) 5

e) None of these

13) If all the digits in each number are arranged in ascending order within the number, then what is the difference between the second highest and the second lowest numbers?

a) 139

b) 104

c) 119

d) 106

e) None of these

14) In how many numbers, the difference between the first and the last digits of each number is greater than the second digit of that number?

a) 3

b) 1

c) 2

d) 5

e) 4

15) If all the digits of the numbers are arranged in descending order from left to right within each number and then the numbers are arranged in increasing order from left to right, then which is the third number from the left end?

a) 354

b) 786

c) 128

d) 239

e) None of these

Directions (16-20): Study the following information carefully and answer the questions given below.

Eight persons viz. A, B, C, D, P, Q, R and S were purchased different items in a store one after another, but not necessarily in the same order. Only two persons were purchased between D and P. Only one person was purchased between P and C. B was purchased immediately after C. Three persons were purchased between C and Q, who was purchased before D. As many persons purchased after D as before C. A was purchased immediately before R.

16) Who among the following person was purchased immediately after P?

a) The one who purchased two persons before D

b) C

c) D

d) The one who purchased two persons after B

e) No one

17) How many persons were purchased between A and C?

a) 1

b) 2

c) 3

d) 0

e) More than three

18) Four of the following five are similar in such a way to form a group, which one of the following doesn't belong to the group?

a) Q, R

b) A, B

c) R, C

d) D, B

e) B, S

19) Who among the following person purchased immediately before D?

a) C

b) B

c) A

d) Q

e) R

20) Which of the following statement is/ are true with respect to the final arrangement?

I. Q is the first person to purchase the item.

II. Three persons were purchased between A and B.

III. S purchased just after P.

a) Only (I) and (II)

b) Only (II) and (III)

c) Only (III)

d) All statements are true

e) All are false

Directions (21-25): Study the following information carefully and answer the questions given below.

Eight persons viz. A, B, C, D, E, F, G and H are sitting around a circular table facing towards the centre, but not necessarily in the same order. One person is sitting between A and B. Two persons are sitting between B and D, who is not

an immediate neighbour of A. C sits facing towards E. Two persons are sitting between E and F. H sits to the immediate left of the person, who sits facing towards F. Both A and C are immediate neighbours.

21) Who among the following person sits to the immediate left of B?

a) G

b) The one who sits second to the right of C

c) F

d) The one who sits second to the left of D

e) C

22) Which of the following statements is/are correct with respect to the final arrangement?

I. The number of persons sitting between G and F is the same as between B and C when counted from the right of both C and G.

II. H sits second to the left of G

III. Both H and D are sitting facing towards each other

a) Only (I) and (II)

b) Only (II) and (III)

c) Only (III)

d) All statements are true

e) All are false

23) Four of the five among the following are similar in such a way to form a group, which one of the following doesn't belong to the group?

a) GE

b) HA

c) FD

d) BC

e) EB

24) Who among the following person sits second to the right of G?

a) The one who sits opposite to B

b) C

c) The one who sits opposite to H

d) A

e) H

25) What is the position of F with respect to C?

a) Immediate left

b) Immediate right

c) Second to the right

d) Second to the left

e) None of these

Direction (26-29): Study the following information carefully and answer the below questions.

In the certain code language:

'Telephone lines are busy' is written as 'vk jd ba ef'

'Draw two parallel lines' is written as 'qn vk hf om'

'Busy people never draw' is written as 'tx ba su hf'

'Two lines are intersecting' is written as 'mi om jd vk'

26) What is the code for the word 'telephone' in the given code language?

a) mi

b) qn

c) vk

d) ef

e) None of these

27) What is the code for the word 'people' in the given code language?

a) su

b) tx

c) hf

d) Either option a or b

e) Either option b or c

28) In the given code language, what does the code 'ba' stands for?

a) busy

b) two

c) parallel

d) are

e) ines

29) What will be the code for the phrase 'draw parallel' in the given code language?

a) mi qn

b) jd mi

c) hf om

d) qn hf

e) None of these

30) If all the vowels of the word "IMPORTED" are replaced by the immediately next letter and all the consonants of the word are replaced by the immediately previous letter in the alphabetical series, then all the letters are arranged from left

to right in reverse alphabetical order, then which of the following letter will be the 4th letter from the left end?

a) O

b) L

c) P

d) Q

e) None of those given as an option

31) How many such pairs of letters are there in the word "OBJECTS" which have as many letters between them as there are in the alphabetical series in both forward and backward directions?

a) 1

b) 2

c) More than three

d) 3

e) None of these

32) If it is possible to make only one meaningful four letter English word from the first, third, fifth and eleventh letters of the word 'INHERITANCE'", using each letter only once, then which is the second letter from the right end of a newly formed word? If more than one such word can be formed, mark as X. If no such word can be formed, mark as Z.

a) Z

b) X

c) P

d) E

e) U

Directions (33-35): Read both the conclusions and then decide which of the given conclusions logically follows from the given statements.

Given Answer:

a) If Only conclusion I follows

b) If Only conclusion II follows

c) If either conclusion I or II follows

d) If Neither conclusion I nor II follows

e) If both conclusions I and II follow

33) Statements:

All beds are woods.

Only a few woods are irons.

Only a few irons are steels.

Conclusions:

I). Some beds are irons.

II). Some woods can be steels.

34) Statements:

Only a few Fans are Light

All Televisions are Fan

Only a few Switches are Television

Conclusion:

I) All Switches can be Fan

II) All Lights can be Television

35) Statements:

Only a few Crickets are Football

All Hockey are Football

Only a few Hockey are Tennis

Conclusion:

I) All Tennis can be Cricket

II) All Hockey being Cricket is a possibility

Answer Key with Explanation

Directions (1-5):

1) Answer: B

2) Answer: D

3) Answer: E

4) Answer: E

5) Answer: E

Designation	Person
CEO	C
MD	F
GM	A
DGM	E
Senior Manager	G
Manager	B
Assistant Manager	H
Clerk	D

We have,

- B is a manager.
- Only two persons hold the position between A and B.
- Only one person holds the position between A and C.

From the above condition, there are two possibilities.

Designation	Case1	Case2
CEO		C
MD		
GM	A	A
DGM		
Senior Manager	C	
Manager	B	B
Assistant Manager		
Clerk		

Again we have,

- More than four persons hold the position between C and H.
- As many persons senior to C as junior to D.
- E is junior to F and senior to G.

From the above condition, case1 gets eliminated.

Case2 shows the final arrangement.

Designation	~~Case1~~	Case2
CEO		C
MD		F
GM	A	A
DGM		E
Senior Manager	C	G
Manager	B	B
Assistant Manager		H
Clerk		D

6) Answer: D

I). X ≥ N - (X ≥ Y > S ≤ I ≤ N) → False

II). N>S - (S ≤ I ≤ N) → False

7) Answer: E

I). K > D- (K ≥ L > D) → True

II). F > C (F ≥ L > D ≥ C) → True

8) Answer: C

I). K > A (A ≤ B ≤ C ≤ K) → False

II). K = A (A ≤ B ≤ C ≤ K) → False

After combining both I and II, we have either I or II true

Directions (9-11):

9) Answer: B

10) Answer: D

11) Answer: B
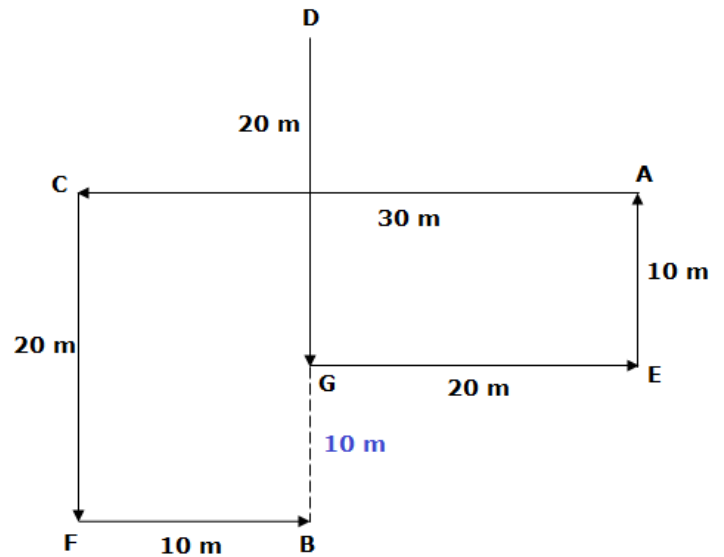
12) Answer: B

526   354   **128**   **786**   329

8/2 = 4

13) Answer: D

526   354   128   786   329

256   **345**   128   678   **239**

345-239=106

14) Answer: C

526   354   128   786   329

526=>6-5=1<2

354=>4-3=1<5

128=>8-1=7>2

786=>7-6=1<8

329=>9-3=6>2

15) Answer: C

526	354	128	786	329
652	543	**821**	876	932
543	652	**821**	876	932

Directions (16-20):

16) Answer: D

17) Answer: B

18) Answer: B

19) Answer: E

20) Answer: D

Final Arrangement

Q
A
R
D
C
B
P
S

We have,

- Only two persons were purchased between D and P.
- Only one person was purchased between P and C.
- B purchased immediately after C.

From the above condition, there are three possibilities.

D	C
	B
D		P
C	P	
B		
P	C	D
	B	
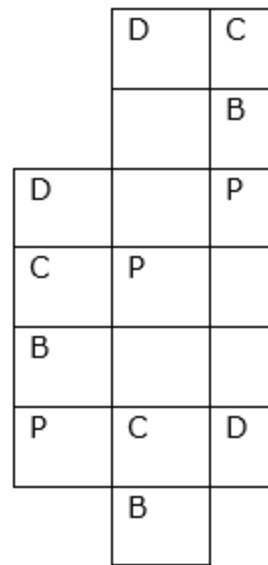
Again we have,

- Three persons were purchased between C and Q, who was purchased before D.
- As many persons purchased after D as before C.
- A purchased immediately before R.

From the above condition, case2 and case3 get eliminated. Case1 shows the final arrangement.

	Case1	~~Case2~~	~~Case3~~
8	Q		
7	A	D	C
6	R		B
5	D		P
4	C	P	
3	B		Q
2	P	C	D
1	S	B	

Directions (21-25):

21) Answer: B

22) Answer: C

23) Answer: D

24) Answer: A

25) Answer: A

Final Arrangement
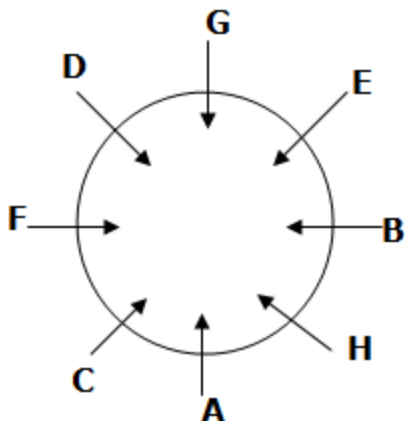
We have,

- One person is sitting between A and B.
- Two persons are sitting between B and D, who is not an immediate neighbour of A.

From the above condition, there are two possibilities.
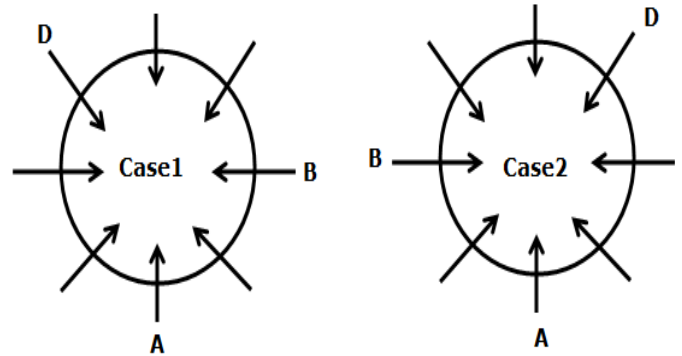
Again we have,

- C sits facing towards E.
- Two persons are sitting between E and F.
- H sits to the immediate left of the person, who sits facing towards F.
- Both A and C are immediate neighbours.

From the above condition, case2 gets eliminated.

Case1 shows the final arrangement.
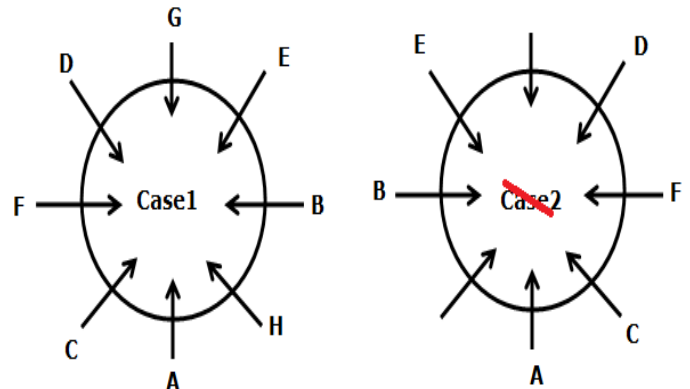
Directions (26-29):

26) Answer: D

27) Answer: D

28) Answer: A

29) Answer: D

Words	Code
lines	vk
busy	ba
are	jd
telephone	ef
two	om
draw	hf
parallel	qn
people/never	tx/su
interesting	mi

30) Answer: A

IMPORTED – JLOPQSFC---→ SQPOLJFC

31) Answer: B

O B J E C T S

32) Answer: B

1st – I

3rd – H

5th – R

11th – E

Words formed are as follows.

- Hire
- Heir

More than one word is formed. Hence, option B is correct.

33) Answer: B
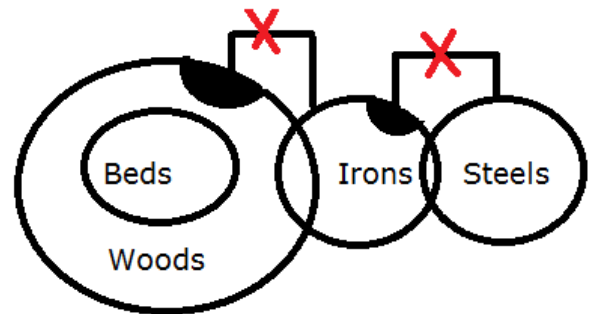
34) Answer: E
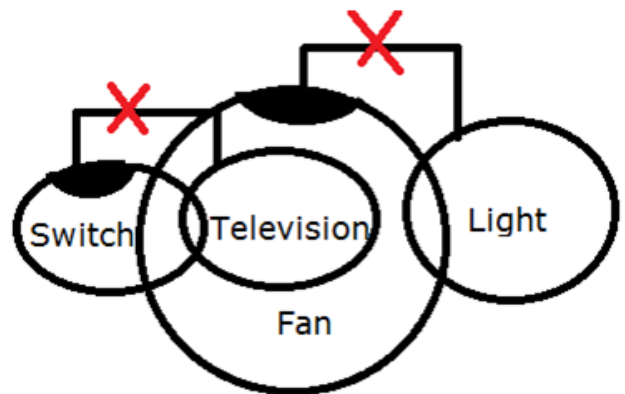
35) Answer: E
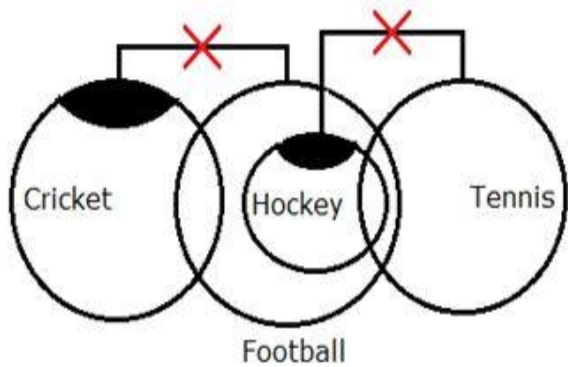
SBI CLERK PRELIMS REASONING ABILITY MEMORY BASED PAPER-2019

Directions (1-5): Study the following information carefully and answer the below questions.

Eight persons- A, B, C, D, E, F, G and H travelled to abroad on two different dates either 6 or 11 of different months- May, June and August, and September of the same year but not necessarily in the same order.

H travelled on an even numbered date of the month with an odd number of days. Only two persons travelled between H and E. Only one person travelled between E and A, who does not travel in August. The number of persons travelled before A is one more than the persons travelled after F. B travelled immediately before D in the same month. C travelled before G, either of them travelled in the month with an odd number of days.

1) Who among the following person travelled on May 11?

a) B

b) D

c) E

d) F

e) A

2) How many persons travelled after H?

a) Three

b) Two

c) One

d) None

e) Four

3) If all the persons are arranged in alphabetical order from May 6th, then how many persons remain unchanged in their position?

a) None

b) Three

c) Two

d) One

e) Four

4) Who among the following person travelled immediately after F?

a) D

b) B

c) E

d) G

e) H

5) In which of the following month and date does D travel?

a) May 6

b) August 6

c) August 11

d) September 11

e) September 6

Directions (6-10): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Given Answer:

a) If Only conclusion I follows

b) If Only conclusion II follows

c) If either conclusion I or II follows

d) If Neither conclusion I nor II follows

e) If both conclusions I and II follow

6) Statements:

Only a few Naturals are Whole rest

Some Whole rests are Eighth rest

All naturals are Half rest

Conclusions:

I. Some Half rests are Whole rest

II. No Eighth rest is Natural

7) Statements:

Only a few Treble clefs are Bass clef

All Bass clefs are Shap

No Shap is Flat

Conclusions:

I. No Flat is Bass clef

II. All Treble clefs can be Shap

8) Statements:

Only a few Crotchets are Minim

All Minims are Dotted Minim

Some Dotted Minims are Semi breve

Conclusions:

I. No Crotchet is Dotted minim

II. Some Minims can be Semi breve

9) Statements:

Only a few Quavers are Semi Quaver

All Quavers are Beam Notes

No Semi Quaver is Bar line

Conclusions:

I. All Beam notes can be Bar line

II. Some Quavers can be Semi Quaver

10) Statements:

Only a few Whole notes are Half note

No half note is Eighth note

No Whole note is Quarter note

Conclusions:

I. Some Quarter notes are Half note

II. No Half note is Quarter note

Directions (11-15): Study the following information carefully and answer the below questions.

Eight persons - I, J, K, L, M, N, O and P sit on the circular table such that all of them are facing towards the centre, but not necessarily in the same order.

L sits second to the left of I. Two persons sit between I and J. J sits to the immediate right of P. One person sits between P and K. N sits third to the left of K. The number of persons sitting between N and I is the same as between I and O. Both M and L are not immediate neighbours.

11) What is the position of I with respect to K?

a) Immediate left

b) Immediate right

c) Second to the right

d) Third to the right

e) Second to the left

12) Who among the following pair of persons sits opposite to each other?

I. PI

II. NJ

III. LK

IV. MO

a) Only II and III

b) Only I and III

c) Only III and IV

d) Only I and IV

e) Only I and II

13) If all the persons are arranged in the alphabetical order from I in the clockwise order, then how many persons remain unchanged in their position (excluding I)?

a) Two

b) One

c) None

d) Three

e) Four

14) Who among the following person sits opposite to N?

a) I

b) M

c) L

d) J

e) O

15) How many persons are sitting between N and P, when counted from the left of N?

a) None

b) Three

c) Two

d) One

e) Four

Directions (16-20): Study the following information carefully and answer the below questions.

In a certain code language

'Poppy Daffodil Aster Dahlia' means 'mt hm nt ij'

'Dahlia Orchid Marigold Lavender' means 'ij vo sq ev'

'Lilac Marigold Daffodil Anemone' means 'ot vh hm sq'

'Poppy Orchid Hyacinth Peony' means 'mt vo pt sm'

16) What does "sq" represent in the given code language?

 a) Lilac

b) Marigold

c) Daffodil

d) Anemone

e) Lavender

17) What is the code for "Daffodil Peony" in the given code language?

a) hm pt

b) sm hm

c) ij vo

d) pt nt

e) Can't be determined

18) If "Anemone Poppy" represents the code "ot mt", then what does "vh ij" represent in the given code language?

a) Orchid Marigold

b) Lavender Lilac

c) Lilac Dahlia

d) Marigold Dahlia

e) Aster Lilac

19) What is the code for "Aster Orchid Lavender" in the given code language?

a) vo ev hm

b) nt vo sq

c) mt nt ij

d) nt vo ev

e) Can't be determined

20) What does "mt sq hm" represent in the given code language?

a) Orchid Marigold Aster

b) Poppy Anemone Marigold

c) Poppy Marigold Daffodil

d) Aster Poppy Peony

e) None of the above

Directions (21-25): Study the following information carefully and answer the below questions.

Eight persons - L, M, N, O, P, Q, R and S are sitting in a linear row such that all of them are facing towards the north, but not necessarily in the same order.

O sits third to the right of M. P sits to the immediate left of M. Atleast two persons sits to the right of O. The number of persons sitting to the left of P is the same as the number of persons sitting to the right of Q. Only one person sits between Q and R. L sits to the immediate right of S.

21) How many persons sit to the left of S?

a) One

b) Four

c) Three

d) Two

e) None

22) Who among the following pair of persons are adjacent to each other?

I. PM

II. LQ

III. RN

a) Only II and III

b) Only I

c) Only I and III

d) Only II

e) All I, II and III

23) Four of the following five are alike in such a way to form a group, which one of the following doesn't belong to that group?

a) M

b) N

c) The one who sits third to the right of O

d) S

e) L

24) What is the position of R from the left end?

a) Sixth

b) Second

c) Third

d) Fourth

e) Fifth

25) How many persons sit between L and Q?

a) Three

b) Two

c) One

d) Four

e) None

Directions (26-30): Read the following information carefully and answer the questions given below.

^ U # 3 V B Q 2 E ! 8 T 4 0 I N * Y 9 & 7 A @ W P $ 5 Z 1 C ?

26) Which of the following element is exactly between "E" and "I"?

a) T

b) 8

c) !

d) 4

e) 0

27) How many such numbers are there in the series which is immediately preceded by a symbol and immediately followed by consonants?

a) None

b) One

c) Two

d) Three

e) More than three

28) Which of the following element is fifth to the left of the twentieth element from the right end?

a) V

b) B

c) Q

d) E

e) 2

29) If all the numbers and symbols are dropped, then which of the following will be the ninth consonant from the right end?

a) B

b) Q

c) V

d) T

e) N

30) What is the position of "N" with respect to "@"?

a) Seventh to the left

b) Sixth to the left

c) Seventh to the right

d) Sixth to the right

e) Eighth to the left

31) If all the letters of the word "ECONOMICS" are changed to the second successive letter as per alphabetical series, then how many vowels are there in the word?

a) One

b) Two

c) Three

d) Four

e) None

32) If 1 is subtracted from all the odd digits and 2 is added to all the even digits of the number "564397615", then which of the following digit(s) is/are repeated more than two times?

a) 8

b) 4

c) 6

d) Both a and c

e) 2

Directions (33-35): Study the following information carefully and answer the below questions

A family consists of nine members and two married couples with three generations. J is the sister-in-law of L. S is the father of Q and son-in-law of Y, who is the grandfather of M. J is the only sister of S. L does not have siblings. I is the father of S and grandfather of M. M is the niece of V. L is the sister-in-law of V. Both T and Q are the opposite gender. M is the granddaughter of T who is not a spouse of Y.

33) How J is related to M?

a) Uncle

b) Aunt

c) Father

d) Mother

e) Can't be determine

34) Who among the following person is the mother of V?

a) J

b) S

c) T

d) L

e) No one

35) How many male members are there in the family?

a) Three

b) Four

c) Five

d) Two

e) Six

Answer Key with Explanation

Directions (1-5):

1) Answer: C

2) Answer: A

3) Answer: D

4) Answer: B

5) Answer: D

Final Arrangement

Month with Date	Person
May 6	C
May 11	E
June 6	G
June 11	A
August 6	H
August 11	F
September 6	B
September 11	D

We have,

- H travelled on an even numbered date of the month with an odd number of days.
- Only two persons travelled between H and E.

From the above condition, there are three possibilities.

	Case1	Case2	Case1a
May 6		H	
May 11			E
June 6			
June 11		E	
August 6	H		H
August 11			
September 6			
September 11	E		

Again we have,

- Only one person travelled between E and A, who does not travel in August.
- The number of persons travelled before A is one more than the persons travelled after F.

From the above condition, case1 gets eliminated.

	Case1	Case2	Case1a
May 6		H	
May 11		A	E
June 6			
June 11		E	A
August 6	H		H
August 11	A		F
September 6			
September 11	E	F	

Again we have,

- B travelled immediately before D in the same month.

- C travelled before G, either of them travelled in the month with an odd number of days.

From the above condition, case2 gets eliminated.

Case1a shows the final arrangement.

	Case2	Case1a
May 6	H	C
May 11	A	E
June 6	C	G
June 11	E	A
August 6	B	H
August 11	D	F
September 6	G	B
September 11	F	D

6) Answer: A
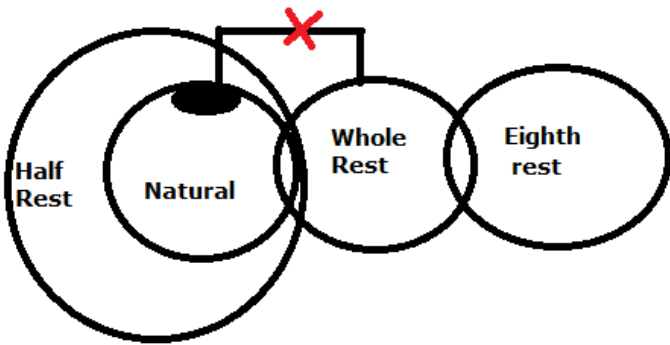
Only conclusion I follows.

7) Answer: E
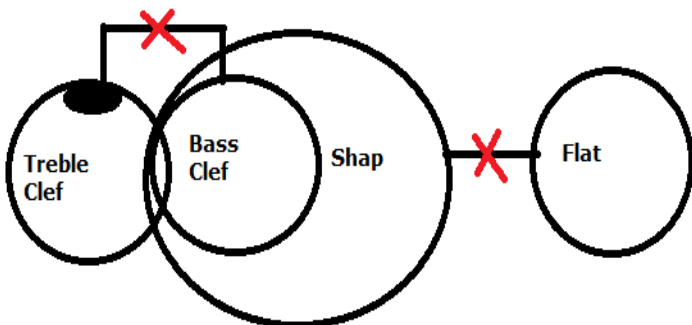
Both conclusions I and II follow.

8) Answer: B
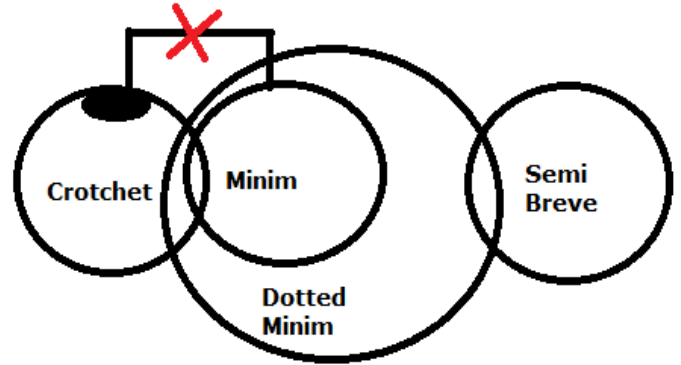
Only conclusion II follows.

9) Answer: D
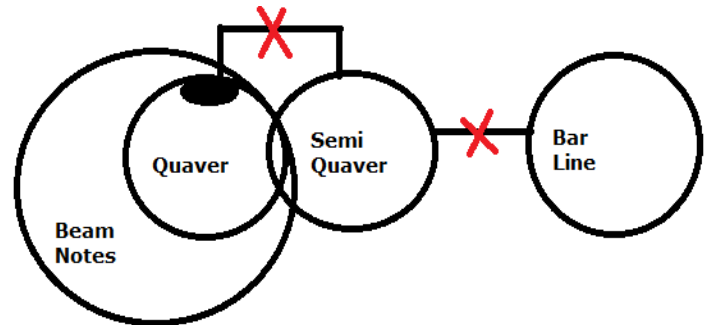
Neither conclusion I nor II follows.

10) Answer: C
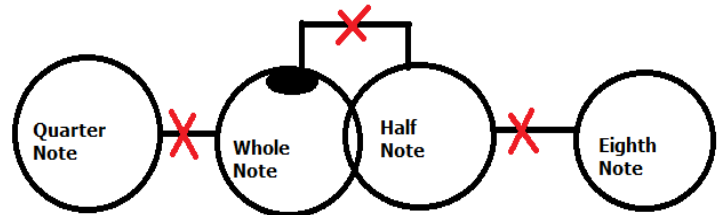
Either conclusion I or II follows.

Directions (11-15):

11) Answer: E

12) Answer: B

13) Answer: C

14) Answer: B

15) Answer: C

Final Arrangement
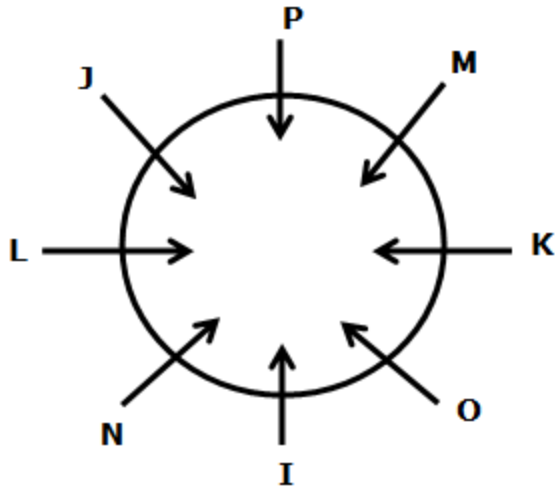
We have,

- L sits second to the left of I.
- Two persons sit between I and J.
- J sits to the immediate right of P.

From the above condition, there are two possibilities.
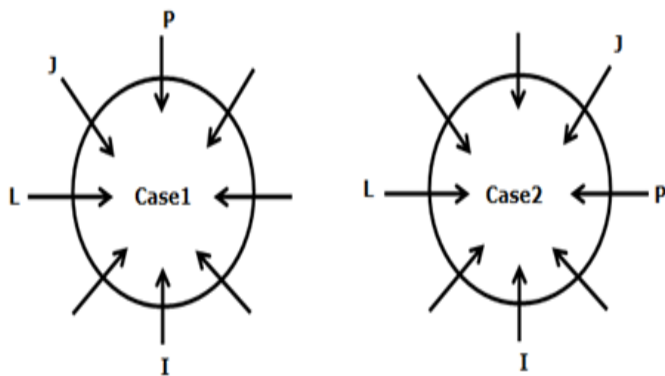
Again we have,

- One person sits between P and K.
- N sits third to the left of K.
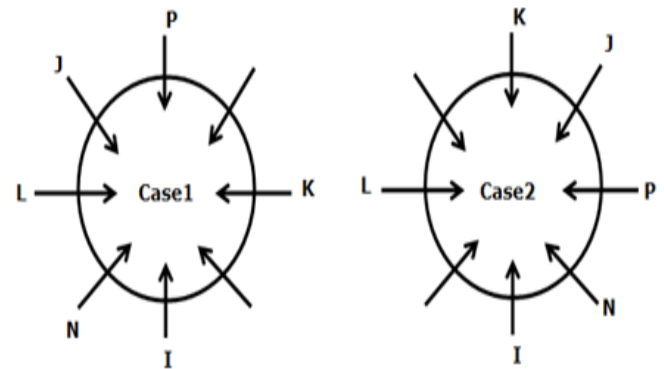
Again we have,

- The number of persons sitting between N and I is the same as between I and O.
- Both M and L are not immediate neighbours.

From the above condition, case2 gets eliminated.

Case1 shows the final arrangement.
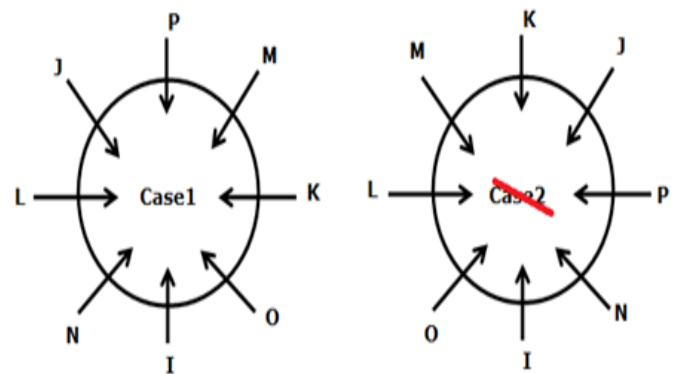
Directions (16-20):

16) Answer: B

17) Answer: E

18) Answer: C

19) Answer: D

20) Answer: C

Poppy	mt	Daffodil	hm
Aster	nt	Dahlia	ij
Orchid	vo	Marigold	sq
Lavender	ev	Lilac/Anemone	ot/vh
Hyacinth/Peony	pt/sm		

Directions (21-25):

21) Answer: D

22) Answer: C

23) Answer: C

24) Answer: A

25) Answer: A

Final Arrangement
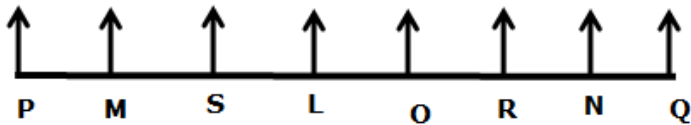
We have,

- O sits third to the right of M.
- P sits to the immediate left of M.
- Atleast two persons sits to the right of O.

From the above condition, there are two possibilities.
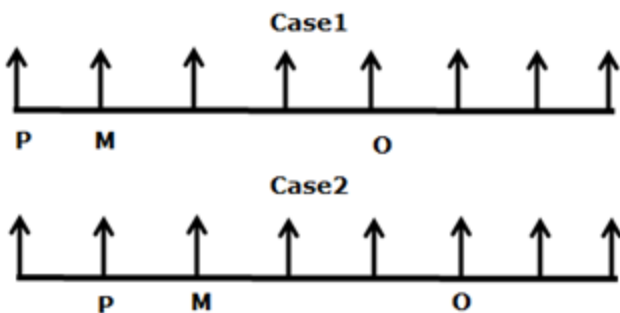
Again we have,

- The number of persons sitting to the left of P is the same as the number of persons sitting to the right of Q.
- Only one person sits between Q and R.
- L sits to the immediate right of S.

From the above condition, case2 gets eliminated. Case1 shows the final arrangement.
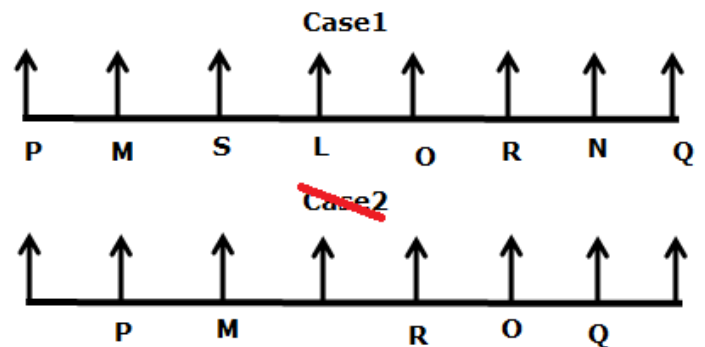
26) Answer: A

Given series

^ U # 3 V B Q 2 E ! 8 T 4 0 I N * Y 9 & 7 A @ W P $ 5 Z 1 C ?

27) Answer: D

Given series

^ U # 3 V B Q 2 E ! 8 T 4 0 I N * Y 9 & 7 A @ W P $ 5 Z 1 C ?

Required order → Symbol - Number - consonant

^ U **# 3 V** B Q 2 E **! 8 T** 4 0 I N * Y 9 & 7 A @ W P **$ 5 Z** 1 C ?

28) Answer: C

Given series

^ U # 3 V B **Q** 2 E ! 8 T 4 0 I N * Y 9 & 7 A @ W P $ 5 Z 1 C ?

29) Answer: A

Given series

^ U # 3 V B Q 2 E ! 8 T 4 0 I N * Y 9 & 7 A @ W P $ 5 Z 1 C ?

All the numbers and symbols are dropped.

U V **B** Q E T I N Y A W P Z C

30) Answer: A

Given series

^ U # 3 V B Q 2 E ! 8 T 4 0 I <u>N</u> * Y 9 & 7 A <u>@</u> W P $ 5 Z 1 C ?

31) Answer: D

ECONOMICS

G<u>E</u>QPQ<u>OK</u>E<u>U</u>

32) Answer: A

564397615

486286804

Directions (33-35):

33) Answer: B

34) Answer: C

35) Answer: C
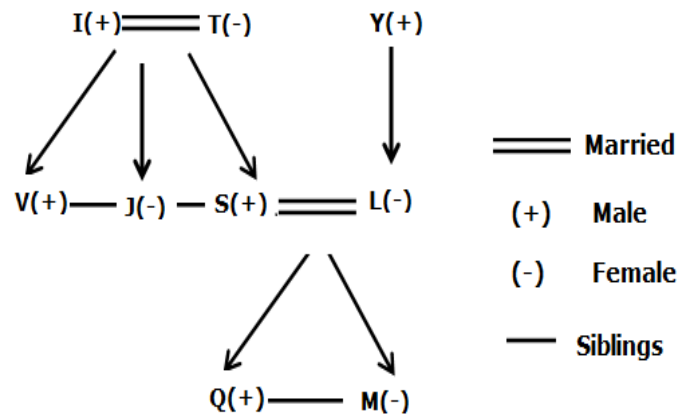
SBI Clerk Prelims Reasoning Ability bundle PDF course Day 1

Directions (1-5): Study the following information carefully and answer the below questions.

Ten persons are sitting in two parallel rows and facing each other. In row-1 A, B, C, D, and E are sitting and facing south while In row-2 P, Q, R, S, and T are sitting and facing north but not necessarily in the same order.

D sits second from one of the ends. Only one person sits between D and E. T sits immediate right of the one who faces E. One person sits between T and Q. S sits immediate left of Q. B neither sits opposite to T nor Q. The number of persons sits between B and A is same as the number of persons sits between R and T. P and Q are not immediate neighbours.

1) Who among the following person sits opposite to S?

a) A

b) E

c) D

d) C

e) B

2) How many persons sit to the right of T?

a) Three

b) Four

c) Two

d) One

e) None

3) Who among the following person sits second to the left of T?

a) R

b) Q

c) S

d) P

e) None of these

4) What is the position of E with respect to B?

a) Third to the left

b) Second to the right

c) Third to the right

d) Second to the left

e) Immediate left

5) Which of the following statement is/are true with respect to P?

I. P sits opposite to A

II. Only one person sits between Q and P.

III. P sits immediate right of R

a) Only I and III

b) Only III

c) Only I and II

d) Only II

e) None of the statements is false

Directions (6-10): Study the following information carefully and answer the below questions.

Eight boxes-L, M, N, O, P, Q, R and S are kept one above another on different shelves of the stack but not necessarily in the same order. The lowermost shelf is numbered as one and the topmost shelf is numbered as eight.

Two boxes are kept between L and M. Only one box is kept between M and N. Box N is not kept adjacent to box L. Box R and Box N are kept adjacent to each other. Box R is kept three boxes above box S. The number of boxes kept above box N is same as the number of boxes kept below box P. Box P and box S are not kept adjacent to each other. Box Q is neither kept adjacent to box M nor box P.

6) Which of the following box is kept on the second shelf?

a) Box R

b) Box Q

c) Box M

d) Box S

e) Box P

7) How many boxes are kept below box O?

a) Four

b) Five

c) Two

d) Three

e) More than Five

8) Which of the following box is kept three boxes below box P?

a) Box O

b) Box Q

c) Box N

d) Box S

e) Box M

9) Which of the following statement is true?

I. Box S is kept below box R

II. Box L and Box O are kept adjacent to each other

III. Box Q is kept on an odd-numbered shelf

a) Both I and II

b) Only III

c) Only II

d) Only I

e) Both II and III

10) If all the boxes are arranged in alphabetical order from top to bottom, then how many boxes remain unchanged in its position?

a) None

b) One

c) Two

d) Three

e) Four

Directions (11-15): Study the following information carefully and answer the below questions.

Eight persons viz., I, J, K, L, M, N, O and P get the job in different months starting from March to October but not necessarily in the same order.

M gets in the month which has an even number of days. Three persons get the job between M and N. The number of persons getting before N is the same as the number of persons getting after O. P gets three persons before J. K gets immediately before P. J neither gets the job in June nor July. I gets after L. I does not get the job after August.

11) Who among the following person gets the job immediately before K?

a) I

b) N

c) O

d) M

e) J

12) Four of the five among the following are similar in such a way to form a group, who among the following doesn't belong to the group?

a) LN

b) IK

c) PM

d) OJ

e) NM

13) In which of the following month does O get the job?

a) August

b) June

c) July

d) September

e) October

14) If all the persons are arranged in alphabetical order from March, then how many persons remain unchanged in its position?

a) Four

b) Three

c) Two

d) One

e) None

15) How many persons get the job between N and J?

a) Two

b) Three

c) Four

d) One

e) None

Directions (16-20): Study the following information carefully and answer the below questions.

Eight persons- A, B, C, D, E, F, G and H are sitting around a circular table facing centre but not necessarily in the same order.

E sits third to the left of G. One person sits between E and C. The number of persons sitting between C and G is same as the number of persons sitting between C and H. A sits second to the left of F. A neither sits adjacent to G nor H.D and G are not immediate neighbours.

16) Who among the following person sits opposite to G?

a) D

b) A

c) F

d) E

e) H

17) Who among the following person sits between A and E when counted to the left of E?

I. F

II. D

III. G

IV. C

a) Only I and II

b) Only III and IV

c) Only I and III

d) Only II and IV

e) All I, II, III and IV

18) Who among the following person sits immediate right of H?

a) G

b) C

c) B

d) A

e) D

19) Which of the following statement is true?

a) All the statements are true

b) G sits immediate right of H

c) No one sits between A and G

d) Only two persons sit between F and G

e) H sits immediate left of C

20) What is the position of G with respect to A?

a) Fourth to the right

b) Third to the left

c) Third to the right

d) Second to the left

e) Second to the right

Answer Key with Explanation

Directions (1-5):

1) Answer: C

2) Answer: C

3) Answer: A

4) Answer: E

5) Answer: B

Final Arrangement
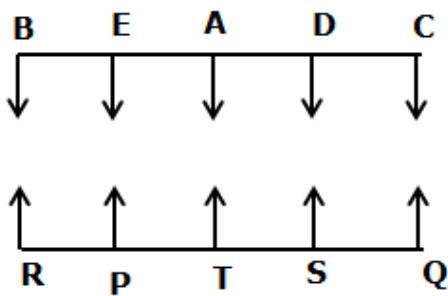
We have,

- D sits second from one of the ends.
- Only one person sits between D and E.
- T sits immediate right of the one who faces E.

From the above condition, there are two possibilities.
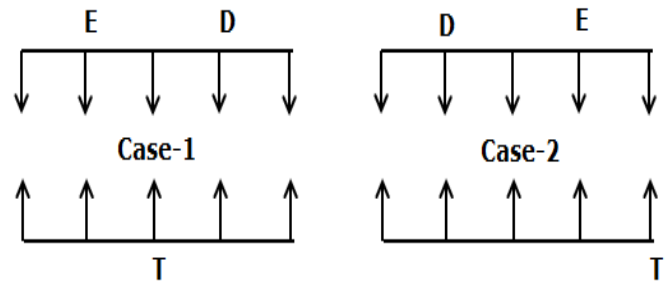
Again we have,

- One person sits between T and Q.
- S sits immediate left of Q.
- B neither sits opposite to T nor Q.

From the above condition, case-1 gets eliminated.
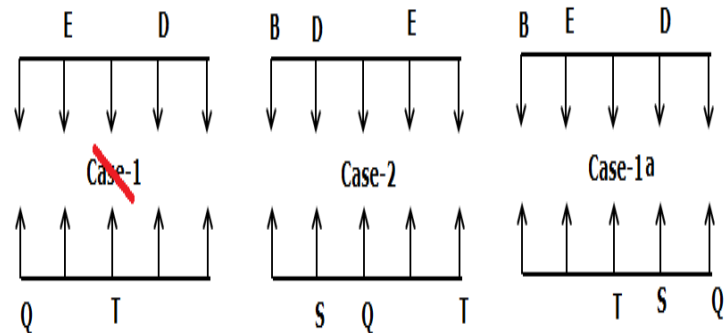
Again we have,

- The number of persons sits between B and A is same as the number of persons sits between R and T.
- P and Q are not immediate neighbours.

From the above condition, Case-2 gets eliminated. Case-1a shows the final arrangement.
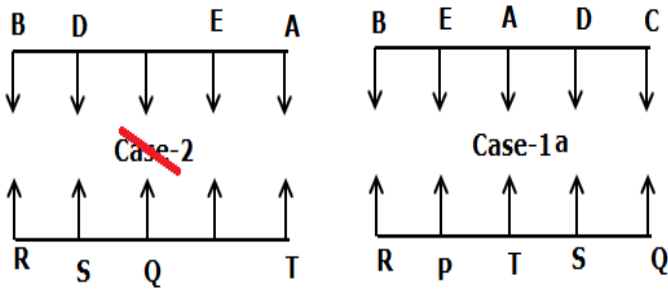
Directions (6-10):

6) Answer: B

7) Answer: E

8) Answer: C

9) Answer: A

10) Answer: C

Final Arrangement

Shelf	Boxes
8	L
7	O
6	P
5	M
4	R
3	N
2	Q
1	S

We have,

- Two boxes are kept between L and M.
- Only one box is kept between M and N.

- Box N is not kept adjacent to box L.

From the above condition, there are two possibilities.

Case-1	Case-2
L	N
	M
M	
N	L

Again we have,

- Box R and Box N are kept adjacent to each other.
- Box R is kept three boxes above box S.
- The number of boxes kept above box N is same as the number of boxes kept below box P.
- Box P and box S are not kept adjacent to each other.

Case-1	Case-2
L	N
	R
P	M
M	
R	S
N	L
S	P

Again we have,

- Box Q is neither kept adjacent to box M nor box P.

From the above condition, case-2 gets eliminated. Case-1 shows the final arrangement.

Case-1	~~Case-2~~
L	N
O	R
P	M
M	
R	S
N	L
Q	
S	P

Directions (11-15):

11) Answer: B

12) Answer: E

13) Answer: A

14) Answer: E

15) Answer: C

Final Arrangement

Month	Persons
March	L
April	I
May	N
June	K
July	P
August	O
September	M
October	J

We have,

- M gets in the month which has an even number of days.

- Three persons get the job between M and N.

From the above condition, there are three possibilities.

Month	Case-1	Case-2	Case-3
March			
April			M
May	N		
June		M	
July			
August			N
September	M		
October		N	

Again we have,

- The number of persons getting before N is the same as the number of persons getting after O.

- P gets three persons before J.

- K gets immediately before P.

- J neither gets the job in June nor July.

Month	Case-1	Case-2	Case-3
March		O	
April		K	M
May	N	P	O
June	K	M	K
July	P		P
August	O	J	N
September	M		
October	J	N	J

Again we have,

- I gets after L.

- I does not get the job after August.

From the above condition, case-2 and case-3 get eliminated. Case-1 shows the final arrangement.

Month	Case-1	~~Case-2~~	~~Case-3~~
March	L	O	L
April	I	K	M
May	N	P	O
June	K	M	K
July	P	L	P
August	O	J	N
September	M	I	I
October	J	N	J

Directions (16-20):

16) Answer: C

17) Answer: A

18) Answer: B

19) Answer: E

20) Answer: D

Final Arrangement
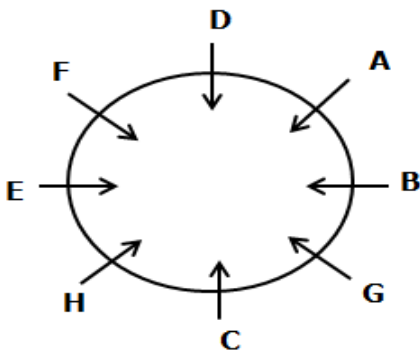
We have,

- E sits third to the left of G.
- One person sits between E and C.

- The number of persons sitting between C and G is same as the number of persons sitting between C and H.

From the above condition, there are two possibilities.
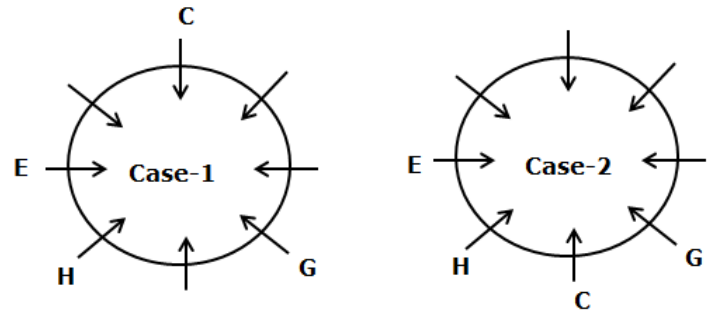
Again we have,

- A sits second to the left of F.
- A neither sits adjacent to G nor H.
- D and G are not immediate neighbours.

From the above condition, Case-1 gets eliminated. Case-2 shows the final arrangement.
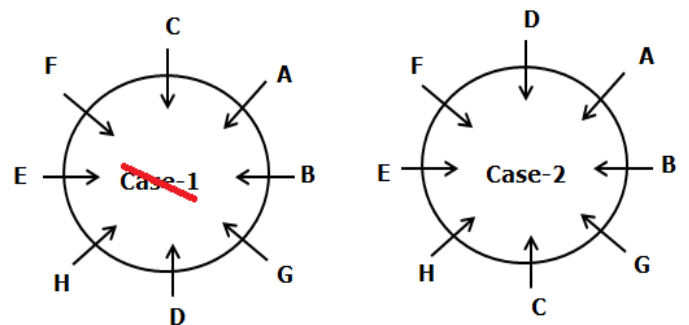
Score booster

Directions (1-3): In each of the following questions, the relationship between different elements is shown in the statements followed by two conclusions. Find the conclusion which is definitely true.

1) Statement:

$F > D < I \le E = J; G \le H \le D$

Conclusions

$G \le I$

$E > G$

a) Only conclusion I is true

b) Only conclusion II is true

c) Both conclusions I and II are true

d) Neither conclusion I nor II is true

e) Either conclusion I or II is true

2) Statement:

S ≤ L ≤ I = P ≥ E > R; L < O

Conclusions:

I. P ≥ S

II. O > R

a) Only conclusion I is true

b) Only conclusion II is true

c) Both conclusions I and II are true

d) Neither conclusion I nor II is true

e) Either conclusion I or II is true

3) Statement:

Y = D < R ≤ E ≥ J; Y > L = Q; K > E < C

Conclusion:

I. D > Q

II. L < C

a) Only conclusion I is true

b) Only conclusion II is true

c) Both conclusions I and II are true

d) Neither conclusion I nor II is true

e) Either conclusion I or II is true

Directions (4-8): Study the following information carefully and answer the questions given below.

In a certain code language,

"Commonwealth Parliamentary Conference Author" is coded as "ch py ce ae"

"Conference Aspirants Online Offline" is coded as "ce as oefl"

"Aspirants Parliamentary Personal Guidance" is coded as "as py pl ge"

"Personal Validity Parliamentary Online" is coded as "pl vy py oe"

4) What is the code for the word "Offline" in the given coded language?

a) ce

b) as

c) oe

d) fl

e) None of These

5) In the given coded language, what does the code "VY" stands for?

a) Personal

b) Validity

c) Parliamentary

d) Guidance

e) Cannot Be Determined

6) What may be the code for the phrase "Personal Commonwealth" in the given coded language?

a) pl ch

b) ae pl

c) ch ae

d) ch ge

e) Cannot be determined

7) What is the code for the word "Guidance" in the given coded language?

a) ch

b) py

c) ce

d) ae

e) None of These

8) What is the code for the word "Parliamentary" in the given coded language?

a) ce

b) ch

c) py

d) pl

e) None of These

Directions (9-13): Study the following information carefully and answer the questions given below.

M J % 4 T E K I 9 # O A $ Q 3 8 N 5 U 7 W ★ B @ D F © 1 Z 6 H

9) What should come in the place of question mark (?) in the following series based on the above arrangement?

J4E, I#A, Q85, 7★@, ?

a) F16

b) D©Z

c) F©6

d) F1Z

e) None of these

10) Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which of the following one does not belong to that group?

a) I 9 E

b) 7 W 5

c) © 1 D

d) Q A 3

e) E K 4

11) If all the symbols are removed from the above arrangement, then which of the following element will be the fourth to the left of the twelfth from the left end?

a) H

b) 9

c) B

d) ★

e) None of these

12) If all the numbers are removed from the above arrangement, then which of the following element will be the sixth to the right of the thirteenth from the right end?

a) 5

b) B

c) 7

d) W

e) None of these

13) How many such symbols are there in the above arrangement, each of which is immediately preceded by a number and immediately followed by a vowel?

a) One

b) Two

c) Three

d) More than three

e) None of these

Directions (14-16): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

14) Statements:

All lights are Flame

All flames are air

No flame is burns

Conclusions:

I. Some burns are not air

II. Some airs are not light.

III. Some airs are burn.

a) All the conclusions follow

b) Either I or III follows

c) Only II and III follow

d) None follows

e) Only I and II follow

15) Statements:

Some pink are not green

All green are yellow

Only a few blue are green

Conclusions:

I. Some Blue is Pink.

II. All blue being yellow is a possibility.

III. Some pink are not blue.

a) Only I follows

b) Only III follows

c) Only II follows

d) Only I and II follow

e) Only II and III follow

16) Statements:

Only a few TV are Radio

No radio is jockey

All Jockeys are Transmitter

Conclusions:

I. Some TV being radio is a possibility.

II. Some TV is not Transmitter

III. All Transmitters being radio is a possibility.

a) Only II and III follow

b) Only I and II follow

c) Only I and III follow

d) All of I, II and III follow

e) None of the above

Directions (17-18): Study the following information carefully and answer the questions given below.

17) Which of the following symbols possibly replace the question marks respectively so that G > C is definitely true?

G >F ? B = R ? A = C < Q > D

a) <and>

b) > and <

c) **> and >**

d) ≤ and <

e) < and <

18) In which of the given expression does the expression N > Q and L > P definitely hold True?

a) L > M ≥ N < O = P ≤ Q< R

b) L > M ≥ N > O = P ≤ Q< R

c) L > M ≥ N > O = P ≥ Q< R

d) L > M ≥ N ≤ O = P ≤ Q< R

e) L ≥ M ≥ N ≥ O = P ≥ Q< R

Directions (19-20): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

19) Statement:

Some Scotch are Whisky

Only a few Whiskies are Wine

All Wines are Vodka

Conclusion:

I. Some Wines are not Whisky

II. Some Vodka can be scotch

a) Only I follows

b) Only II follows

c) Either I or II follows

d) Both I and II follow

e) Neither I nor II follows

20) Statement:

Only a few Stumps are Balls

Some Balls are Ribbon

Some Ribbons are Balloon

Conclusion:

I. All Ribbons being Stump is a possibility

II. Some Stumps are not Ball

a) Only I follows

b) Only II follows

c) Either I or II follows

d) Both I and II follow

e) Neither I nor II follows

Answer Key with Explanation

1) Answer: B

I. G ≤ I (G ≤ H ≤ D < I), false

II. E > G (E ≥ I > D ≥ H ≥ G), true

Hence, only conclusion II is true

2) Answer: A

I. P ≥ S (P = I ≥ L ≥ S), true

II. O > R (O > L ≤ I = P ≥ E > R), false

Hence, only conclusion I is true

3) Answer: C

I. D > Q (D = Y > L = Q), true

II. L < C (L < Y = D < R ≤ E < C), true

Hence, both conclusions I and II are true

Directions (4-8):

4) Answer: D

5) Answer: B

6) Answer: E

7) Answer: E

8) Answer: C

Language	Code
Conference	ce
Parliamentary	py
Aspirants	as
Personal	pl
Online	oe
Offline	fl
Guidance	ge
Validity	vy
Commonwealth/Author	ch/ae

9) Answer: A

M J % 4 T E K I 9 # O A $ Q 3 8 N 5 U 7 W ★ B @ D F © 1 Z 6 H

J4E, I#A, Q85, 7★@, F16

10) Answer: D

M J % 4 T E K I 9 # O A $ Q 3 8 N 5 U 7 W ★ B @ D F © 1 Z 6 H

Hence, Q A is not consecutive term.

11) Answer: B

M J % 4 T E K I 9 # O A $ Q 3 8 N 5 U 7 W ★ B @ D F © 1 Z 6 H

Removing symbols:

M J 4 T E K I 9 O A Q 3 8 N 5 U 7 W B D F 1 Z 6 H

12th from left end = 3

4th to left of "3" = 9

12) Answer: B

M J % 4 T E K I 9 # O A $ Q 3 8 N 5 U 7 W ★ B @ D F © 1 Z 6 H

Removing numbers:

M J % T E K I # O A $ Q N U W ★ B @ D F © Z H

13th from the right end = $

6th to right of "$" = B

13) Answer: A

M J % 4 T E K I 9 # O A $ Q 3 8 N 5 U 7 W ★ B @ D F © 1 Z 6 H

The symbol which is immediately preceded by a number and immediately followed by a vowel is "9 # O".

14) Answer: D
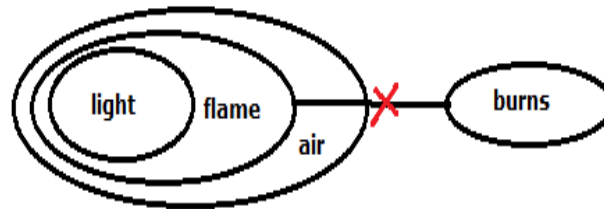
15) Answer: C
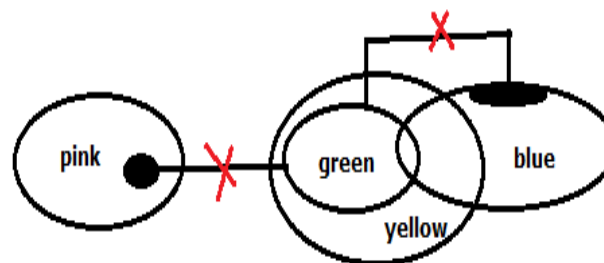
16) Answer: E
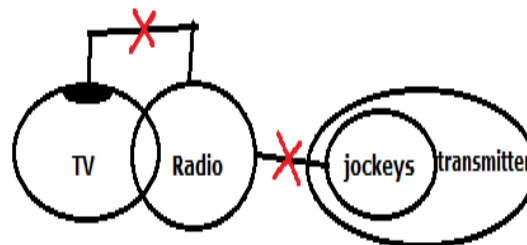
17) Answer: C

G > F > B = R > A = C < Q > D

Hence, G > C is true.

18) Answer: C

This expression N > Q and L > P definitely hold true for the expression "L > M ≥ N > O = P ≥ Q < R".

19) Answer: B

scotch | whisky | wine | vodka

stumps | balls | ribbons | balloon

20) Answer: D

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Direction (1-5): Study the following information carefully and answer the questions given below. (Covered in→IBPS RRB Officer SCALE I Mains 2021 Mock Test 8(30-34), IBPS RRB Office Assistant Mains 2021 Mock Test 1(36-40), Bundle PDF: IBPS/RRB Clerk Mains Day -10, IBPS/RRB Clerk Mains Day-40,RRB PO/SBI Clerk Mains Day-42)

Ten person viz. J, K, L, M, N, O, P, Q, R and S are sitting on the circular table such that all of them are facing towards the center, but not necessarily in the same order. The consecutive alphabetically named persons doesn't sit adjacent to each other i.e., K neither sits adjacent to J nor L and so on.

S sits third to the left of Q, who sits to the immediate left of M. Two persons sit between M and O. The number of persons between O and Q is one less than between M and P, when counted from the right of both O and M. J sits adjacent to P. Two persons sit between J and N, who doesn't sit adjacent to R. One person sits between L and R.

1. Who among the following person sits second to the left of O?

a) L

b) K

c) J

d) N

e) None of these

2. The number of persons between J and K is the same as between N and ___, when counted from the left of both N and K.

a) P

b) Q

c) M

d) R

e) None of these

3. How many persons sit between S and J when counted from the right of S?

a) One

b) Two

c) Three

d) More than three

e) None

4. What is the position of P with respect to L?

a) Immediate right

b) Fifth to the left

c) Third to the right

d) Fifth to the right

e) None of these

5. Which of the following pairs of person are the immediate neighbours of K?

a) N, P

b) O, Q

c) P, R

d) S, J

e) M, R

Direction (6-9): Study the following information carefully and answer the questions given below. (Covered in Most number of Mock and Bundle PDF)

In a certain code language,

"All are good future" is coded as "nq vk ir vn"

"Are new flower blossom" is coded as "fj ir bd cw"

"Scan good fruit blossom" is coded as "og vk fj #"

"Future finds scan flower" is coded as "vn ka cw gi"

6. Which of the following code denotes the symbol '#' in the given code language?

a) ka

b) cw

c) Either 'vn' or 'gi'

d) Either 'gi' or 'ka'

e) gi

7. Which of the following code is not correct that is bold in the given code language?

a) gi

b) cw

c) vn

d) ka

e) All are correct

8. What is the code for the word 'New' is the given language?

a) bd

b) ir

c) cw

d) fj

e) None of these

9. Which of the following word denotes the code 'nq' in the given language?

a) Good

b) All

c) Future

d) Are

e) None of these

Direction (10-12): Study the following information carefully and answer the questions given below.(Covered in→IBPS RRB PO (SCALE I) Mains 2020 Mock Test 5 (6-8), IBPS RRB Office Assistant Mains 2020 Mock Test 7 (34-35)

Bundle PDF: RRB PO/SBI Clerk Mains Day-2, IBPS PO/SBI PO Mains Day 3, IBPS PO/SBI PO Mains Day-9)

'A@B' is coded as 'A is to the north of B'

'A#B' is coded as 'A is to the south of B'

'A$B' is coded as 'A is to the east of B'

'A&B' is coded as 'A is to the west of B'

'A5@B' is coded as 'A is 5m to the north of B'

'A8#B' is coded as 'A is 8m to the south of B'

'A4$B' is coded as 'A is 4m to the east of B'

'A7&B' is coded as 'A is 7m to the west of B'

F10&X; L4$R; N5#R; E6@G; X3@M14$G; F11#L; N7$B; T8#P7&E

10. In which of the following direction is T with respect to G?

a) West

b) Southwest

c) East

d) Northwest

e) None of these

11. What is the approximate shortest distance between B and F?

a) 12m

b) 14m

c) 13m

d) 11m

e) 15m

12. If a person travels from N to P at a speed of 3m/s, then how long will he take to cover the entire journey?

a) 18sec

b) 21sec

c) 19sec

d) 20sec

e) 25sec

Direction (13-15): Some statements are followed by three conclusions. Study the following information carefully and choose the conclusion that logically follows the given statements, irrespective of the commonly known facts.(Covered in Most number of Mock and Bundle PDF)

13. Statements:

Only a few towels are dressing.

All dressings are cloth.

No cloth is material.

Some materials are general.

Conclusions:

I. Some clothes are towel.

II. All towels can never be material.

III. No dressing is material.

a) Only II

b) Both I and III

c) Both II and III

d) Only I

e) All I, II and III

14. Statements:

Only a few roots are green.

All roots are stem.

Only a few leaves are green.

All mints are leaves.

Conclusions:

I. All stems can never be green.

II. No leaves are root.

III. Some mints can be green.

a) Only II

b) Both I and III

c) Both II and III

d) Only I

e) All I, II and III

15. Statements:

All devices are portable.

Only a few portables are machine.

No machine is automate.

All automates are heavy.

Conclusions:

I. All heavy can never be machine.

II. No device is automate.

III. All portables can be automate.

a) Only II

b) Both I and II

c) Both II and III

d) Only I

e) None follow

Direction (16-20): Study the following information carefully and answer the questions given below.

(Not covered exact model but covered staircase model questions in Mains Mocks and Mains Bundle PDF Course)

Six persons viz. A, B, C, D, E and F are living in a six storey building, but not necessarily in the same order. The lowermost floor is numbered as 1 and the floor immediately above it is numbered as 2 and so on.

C lives in an odd numbered floor but not in floor five. A lives immediately above C. Only two persons live between A and B. F lives immediately below D, who doesn't live on the top-most floor.

Special conditions:

i) There are 40 staircases in the building in which each person stands on different steps. The lowermost step is numbered as 1 and the step immediately above it is numbered as 2 and so on.

ii) Initially, the persons are standing in the steps which are the multiples of 6 i.e., the person in the lowermost floor stands on step 6 and so on. Only one person stands on each step.

iii) All the persons move from their respective steps based on the dice. The persons living in the odd numbered floor move upward whereas the persons living in the even numbered floor move downward.

iv) Each person is allowed to throw the dice twice and the sum of the two outcomes of the dice is the number they need to move, i.e., if a person gets the outcome as (3,4), then that person needs to more 7 steps either up or down.

v) All the persons throw the dice in alphabetical order. After the final arrangement, more than one person can stand on the same step. The following shows the final outcome of the dice thrown by all the persons in alphabetical order respectively.

(1,1), (4,1), (3,1), (2,5), (3,5), (6,4).

16. Who among the following person stands on the same staircase along with A (after the rearrangement of all the persons)?

a) D

b) C

c) B

d) F

e) No one

17. How many staircases are there between D and E (after the rearrangement of all the persons)?

a) 9

b) 11

c) 12

d) 10

e) None of these

18. In which of the following staircase does B stand in the final arrangement?

a) 35

b) 29

c) 32

d) 26

e) None of these

19. Which of the following pair of persons live on the adjacent floors of D?

a) Both A and F

b) Both B and C

c) Both B and F

d) Only F

e) Both F and C

20. Which of the following statement is/are true with respect to the final arrangement?

I. Both B and D stands on the odd numbered staircase.

II. D lives on an even numbered floor of the building.

III. No one stands above staircase 32.

IV. Only A stands on the staircase, which is an even number.

V. There is an odd number of staircases between C and E.

a) I, II and III

b) II, IV and V

c) I, II and V

d) III and IV

e) II, III and V

Direction (21-23): Study the following information carefully and answer the questions given below.

(Covered in Most number of Mock and Bundle PDF)

'A%B' means 'A is neither greater than nor equal to B'

'A#B' means 'A is neither smaller than nor equal to B'

'A@B' means 'A is neither greater than nor smaller than B'

'A&B' means 'A is not smaller than B'

'A$B' means 'A is not greater than B'

21. Statements:

D % G $ F @ R; C # E @ G & W; N % J $ C % T

Conclusions:

I. R % J

II. T # W

III. N % F

a) Only I is true

b) Only II is true

c) Both I and II are true

d) Both I and III are true

e) None is true

22. Statements:

M # H @ K & V; N @ K # P & D; B % P @ J # W

Conclusions:

I. B $ H

II. N & W

II. V % D

a) Only II is true

b) Both I and II are true

c) Both II and III are true

d) Both I and III are true

e) None is true

23. Statements:

A & N # Y @ R; D % E $ V % L; N @ E # P & T

Conclusions:

I. L # R

II. T % V

III. Y $ D

a) Only II is true

b) Both I and III are true

c) Both I and II are true

d) Both II and III are true

e) All are true

Direction (24-28): Study the following information carefully and answer the questions given below.

(Not covered this model but will cover in upcoming Mains Mock Test)

There are six units placed one above the other in a single stack. Each unit contains a book and some number of boxes. The lowermost unit is numbered as 1 and the unit immediately above it is numbered as 2 and so on. Six different books viz. A, B, C, D, E and F are placed in each unit, but not necessarily in the same order. There are certain number of boxes which is placed one above the other in each unit and the total height of each unit is between 35cm and 70cm with all the boxes in each unit has the same height. No unit has the same height and the same number of boxes.

Note: i) If the total height of the unit is 10cm and the number of boxes in that unit is 2, then the height of each box will be 5cm.

ii) The total height of each unit will be the multiple of the number of boxes in that unit. At least two boxes are there in each unit.

Book B is placed at an even numbered unit and immediately below the unit which has 6 boxes in it. The unit which has the height of 46cm is three units away from book B. Book D is placed immediately above the unit which has the height of 46cm. The number of units above book D is one less than below the unit which has 3 boxes with each box in height of 13cm. Book E is placed immediately below the unit which has 3 boxes. Book C is placed along with 5 boxes with a unit height of 65cm. One of the even numbered units contains 4 boxes with a unit height of 52cm which is immediately above the unit with book A. The height of the unit which has book F is 48cm. The height of the unit with 7 boxes is 42cm, which is the highest number of boxes.

24. Which of the following unit has the least number of boxes?

a) 4

b) 3

c) 5

d) 2

e) None of these

25. Which of the following book is placed along with the unit that contains 6 boxes?

a) B

b) E

c) D

d) F

e) None of these

26. How many boxes are there in unit 4?

a) 5

b) 7

c) 6

d) 4

e) None of these

27. What is the height of unit 2?

a) 52cm

b) 39cm

c) 65cm

d) 48cm

e) None of these

28. How many units are there between book A and E?

a) One

b) Two

c) Three

d) More than three

e) None

Direction (29-30): Study the following information carefully and answer the questions given below.(Covered in Most number of Mock and Bundle PDF)
Given answers:

a) Statgunt I alone is sufficient to answer the question

b) Statement II alone is sufficient to answer the question

c) Either statement I alone or statement II alone is sufficient to answer the question

d) Neither statement I alone nor statement II alone is sufficient to answer the question

e) Both statements I and statement II together are sufficient to answer the question

29. How is W related to T?

Statement I: Y is the sister of U who is the only son of V. W is the daughter-in-law of U. Z is the male member of the family whereas X and T are female members.

Statement II: Z is the spouse of V who is the sibling of T. U is the child of V and brother of W. Y is the spouse of U and parent of X.

30. Seven persons viz. M, N, O, P, Q, R and S are living in a seven storey building such that the lowermost floor is numbered as 1 and the topmost floor is numbered as 7, but not necessarily in the same order. Who among the following person lives three floors below N?

Statement I: R lives three floors above M who lives adjacent to P. Only two persons live between P and Q. The number of persons living above O is the same as below R.

Statement II: N lives on an even numbered floor and two floors above S who lives three floors below R. P lives exactly between R and M who lives two floors above O.

Direction (31-33): Study the following information carefully and answer the questions given below.
(Covered in→SBI Clerk 2021 Mains Mock Test –

1(180-183), IBPS RRB Officer SCALE I Mains 2021 Mock Test 6(16-18))

Seven persons viz. A, B, C, D, E, F and G are from the same family with three generations. They are of different age groups.

Note: The age of the husband is more than the age of his wife whereas the age of the parent is more than their children.

C is the younger brother of D but elder than A. F is the elder sister of A. E is the mother of C and has a daughter and a son. F is the mother of G, who is the younger sister of B. G is the only granddaughter of E. A is the brother-in-law of C and is elder than B. The one who is the second eldest is 43 years old and the age of the third youngest is 24 years old.

31. If the average age of A and F is 27 years, then what is the possible age of C?

a) 28 years

b) 16 years

c) 34 years

d) 47 years

e) 49 years

32. How is B related to D?

a) Daughter

b) Nephew

c) Son

d) Niece

e) Cannot be determined

33. Who among the following person is the eldest among all?

a) C

b) D

c) B

d) E

e) None of these

Direction (34-37): Study the following information carefully and answer the questions given below.

(Covered in→SBI CLERK mains 2021 mock-1(156-159),IBPS RRB Office Assistant Mains 2021 Mock Test 5(6-9), IBPS RRB Office Assistant Mains 2021 Mock Test 9(6-9),SBI Clerk Mains 2020 Mock Test – 4(153-156), IBPS RRB PO (SCALE I) Mains 2020 Mock Test 2(23-26)

Bundle PDF: IBPS/RRB Clerk Mains Day -10, IBPS PO/SBI PO Mains Day-23)

A numerical input machine, when given an input, performs certain logic on each steps and arrive at the final output. The following is the illustration of the steps for the given input.

Input:	46	34	58	49	67
Step 1:	442	331	553	445	661
Step 2:	4312	3211	5413	4315	6511
Step 3:	43212	32211	54213	43115	65511
Step 4:	224321	113221	335421	554311	116551
Step 5:	28	10	54	95	19

Step 5 is the last and the final step of the given input. Based on the illustration given above, perform the same logic on each step and obtain the output for the input given below.

Input:	26	37	62	58	43

34. If all the numbers are arranged in ascending order from left to right in the last step of the given input, then how many numbers remain unchanged in their position?

a) One

b) Two

c) Three

d) More than three

e) None

35. What is the ratio of the highest and the second lowest number in the last step of the given input?

a) 44:27

b) 22:27

c) 22:13

d) 44:13

e) None of these

36. Which of the following number is the immediate left of the third number from the right end in step 3 of the given input?

a) 32114

b) 41123

c) 31214

d) 54213

e) None of these

37. What is the difference between the third number from the left in step 2 and the second number from the right in step 4 of the given input?

a) 330008

b) 270207

c) 443307

d) 328907

e) None of these

Direction (38-42): Study the following information carefully and answer the questions given below.
(Covered in→SBI clerk mains 2021 mock-7(143-146),SBI PO Mains 2020 Mock Test- 9(25-28) Bundle PDF: IBPS/RRB Clerk Mains Day -37, RRB PO/SBI Clerk Mains Day-27, IBPS PO/SBI PO Mains Day-30)

Eight people P, Q, R, S, T, V, W and X are born in four different months January, April, July and October of 2009 and 2010. Only one person is born in a month of given year but not necessarily in the same order. All of the persons belong to different countries.

X is born in a month of having an even number of days. Number of persons born before X is same as the number of persons born after the one who belongs to Japan. Only one person is born between P and the one who belongs to Japan who is born after P. The one who belongs to Japan and the one who belongs to Russia are born in the same month. R and W are born in the same month. Only four persons are born between W and the one who belongs to France. The one who belongs to France is born in a month of having odd number of days. S is born before July in 2009. One person is born between S and the one who belongs to Israel. The one who belongs to Brazil is born one of the months

before S. Q and the one who belongs to Brazil are born in the same year. Both T and V are not born in the same month. The one who belongs to Qatar is born at least six months before V but not in April. T doesn't belong to Brazil. Person who belongs to China and Qatar are not born in different years.

38. R is born _____ months before/after the one who belongs to Iran (Consider both born in the same year)?

a) One month before

b) Two months after

c) In the same months

d) Three months after

e) One month after

39. How many persons are born between the one who belongs to Qatar and the one who belongs to France?

a) Three

b) Six

c) Two

d) Four

e) Five

40. Four of the following five are related in a certain way and hence form a group. Find the one which doesn't belong to that group?

a) P – Qatar

b) V – Israel

c) S – Iran

d) W – Russia

e) Q – France

41. _____ is born just before the one who belongs to Brazil?

a) T

b) No one

c) P

d) V

e) Q

42. Which of the following is true statement regarding the given information?

I. T and V are born in different years

II. Q is born before R

III. X belongs to China

a) Only III

b) Both I and III

c) Both II and III

d) All I, II and III

e) Both I and II

43. Statement: There has been a significant drop in the water level of all the lakes supplying water to the city. The lakes have become dry due to several reasons like pollution, scarcity of rain and drying of lake due to insufficient maintenance. Also these lakes have been largely used by animals and birds living there.

Courses of action:

I. The water supply authority should impose a partial cut in supply to tackle the situation.

II. The government should appeal to all the residents through mass media for minimal use of water.

a) only course of action I follows.

b)only course of action II follows.

c)either course of action I or II follows.

d)neither course of action I nor II follows.

e)both course of action I and II follow.

44. Statement: The court asked the Petroleum and Safety Explosives Organization (PESO) to review the clinical composition of fireworks, particularly with respect to reducing aluminium content, and submit a report on this within two weeks.

Assumptions:

I). The court put the onus on the Centre, state governments, schools and colleges to take up public awareness campaigns informing the public about the harmful effects of firecrackers.

II). Firecrackers alone could not be held as the reason for pollution during Diwali and an entire industry should not be shut down as a consequence. They contended that other factors such as vehicular pollution, construction dust and crop stubble burning also contribute to a great measure to the pollution in Delhi.

a) Only I Implicit

b)Only II Implicit

c)If either I or II Implicit

d)If neither I nor II is Implicit

e)If both I and II are Implicit

45. Statement I: There has been a high increase in the incidents of atrocities against women in the city during the past few months. Violence against women in India refers to physical or sexual violence committed against Indian women, typically by a man. Common forms of violence against women in India include acts such as domestic abuse, sexual assault, and murder.

Statement II: The police authority has been unable to nab the culprits who are committing crime against women. Most typically, these acts are committed by men as a result of the long-standing gender inequalities present in the country.

a) Statement I is the cause and statement II is its effect

b)Statement II is the cause and statement I is its effect

c)Both the statements I and II are independent causes

d)Both the statements I and II are effects of independent causes

e)Both the statements I and II are effects of some common cause

46. Statement: Cigarettes constitute a mere 20% of tobacco consumption in India, and fewer than 15% of the 200 million tobacco users consume cigarettes., Yet these 15% contribute nearly 90% of the tax revenues to the Exchequer from the tobacco sector. The punitive cigarette taxation regime has kept the tax base narrow, and reducing taxes will expand this base.

Which one of the following assumptions best bolsters the fact that reducing duties will expand the tax base'?

a) The cigarette manufacturers' association has decided to indulge in aggressive promotion

b)There is a likelihood that tobacco consumers will shift to cigarette smoking if cigarette prices were to reduce

c)The cigarette manufacturers are lobbying for a reduction on duties

d)An increase in duties on non-cigarette tobacco may lead to a shift in favor cigarette smoking

e)none of these

47. Statement : Incessant rain for the past several days has caused the problem of overflowing and flood as the river bed is full of silt and mud. The incessant rain has created a lot of damage and disruption in Andhra Pradesh. At Least six districts in the state have been hit by a severe depression and nearly 450 villages have been affected by the floods and hundreds of kilometers of roads are damaged.

Course of Action :

1. The people residing near the rivers should be shifted to the safer place.

2. The silt and mud from the river bed should be cleared immediately after the proceeding of water level.

3. The affected people should be provided with relief.

a) Only 1 follows

b)Only 2 follows

c)Only 2 & 3 follow

d)None follows

e)All follow

48. Statement: If highways were restricted to cars and only those trucks with capacity of less than 8 tons, most of the truck traffic would be forced to run outside highways. Such a reduction in the amount of truck traffic would reduce the risk of collisions on highways.

The conclusion drawn in the first sentence depends on which of the following assumptions?

a) The roads outside highway would be as convenient as highway for most drivers of trucks..

b)Most of the roads outside highways are not ready to handle truck traffic.

c)Most trucks that are currently running in highway have a capacity of more than 8 tons.

d)Cars are at greater risk of being involved in collisions than are trucks.

e)none of these

49. Statement : Forester -- The recent claims that the White rhino is not extinct are false. The White rhino's natural habitat was taken over by deforestation, resulting in the animal's systematic elimination from the area. Since then naturalists working in the region have discovered no hard evidence of its survival, such as carcasses or tracks. In spite of alleged sightings of the animal, the White rhino no longer exists.

Which one of the following is the conclusion on which the forester's statement depends?

a) Deforestation drove the last White rhinos to starvation by chasing them from their natural habitat.

b) Every naturalist working in the White rhino's natural habitat has looked systematically for evidence of the rhino's survival.

c) The White rhino did not move and adapt to a different region in response to the loss of habitat.

d) Those who have reported sightings of the White rhino are not experienced naturalists or foresters.

e) none of the above

50. Statements:

I. Despite the fact that the lack of power in schools is taken note of by the Parliamentary Standing Committee which operates its own schemes and sponsors several school education programmes, India has not yet electrified a significant number of government schools.

II. According to data, only 56.45% of government schools had electricity and 56.98% a playground, while almost 40% lacked a boundary wall.

Conclusions:

I. The tardy progress on such important facilities, in spite of the projects having been sanctioned, shows the low priority that school education is being accorded.

II. The government-run school sector needs a fund infusion and a public school system that guarantees universal access, good learning and all facilities has to be among the highest national priorities.

a) Only conclusion I follows

b) Only conclusion II follows

c) Either conclusion I or II follows

d) Neither conclusion II nor conclusion II follows

e) Both conclusions I and conclusion II follow

Answer Key with Explanation

Direction (1-5):

1. Answer: B

2. Answer: D

3. Answer: A

4. Answer: C

5. Answer: E
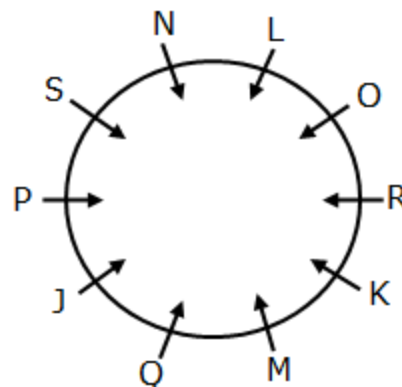
- S sits third to the left of Q, who sits to the immediate left of M.
- Two persons sit between M and O.
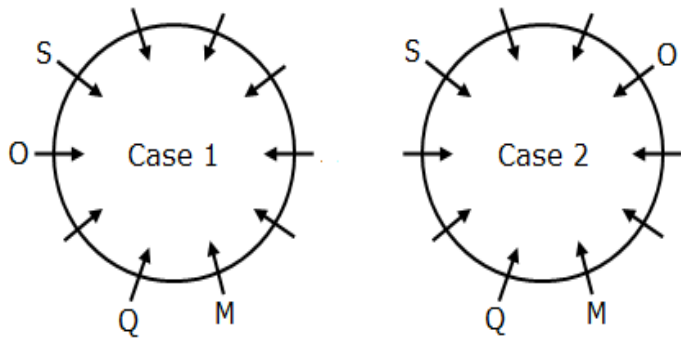
- The number of persons between O and Q is one less than between M and P, when counted from the right of both O and M.
- J sits adjacent to P.
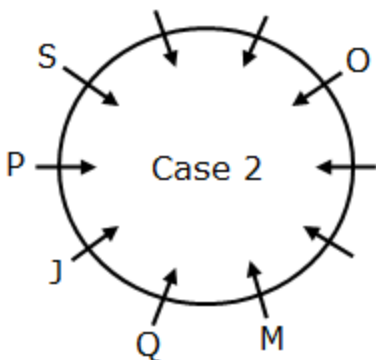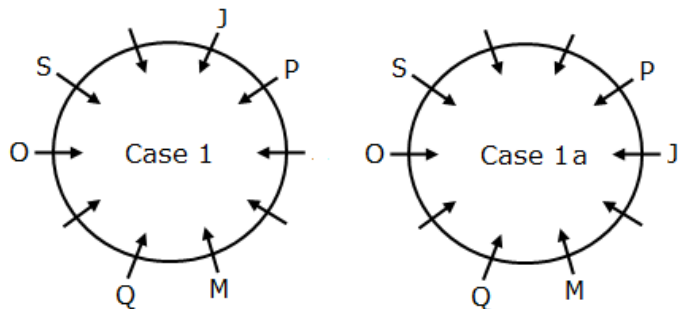
- Two persons sit between J and N, who doesn't sit adjacent to R.
- One person sits between L and R.
- The consecutive alphabetically named persons doesn't sit adjacent to each other i.e., K neither sits adjacent to J nor L and so on.

Hence, cases 1 and 1a get eliminated.
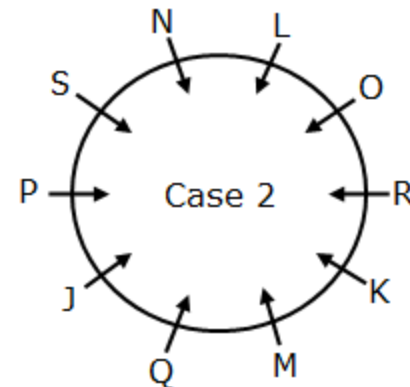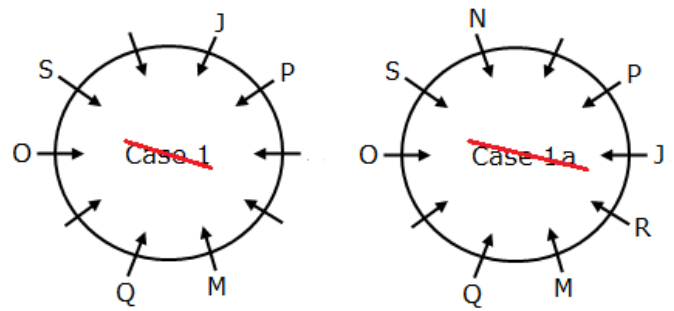
Direction (6-9):

6. Answer: D

7. Answer: E

8. Answer: A

9. Answer: B

From the given information, the following was determined.

Word	Code
Are	ir
Blossom	fj
Good	vk
Future	vn
Flower	cw
All	nq
New	bd
Finds/scan	ka/gi
fruit	og

Direction (10-12):

10. Answer: B

11. Answer: C

12. Answer: D
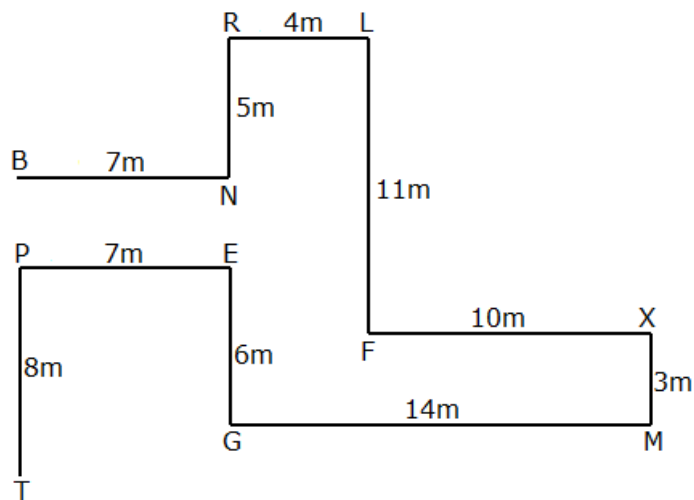
Direction (13-15):

13. Answer: E
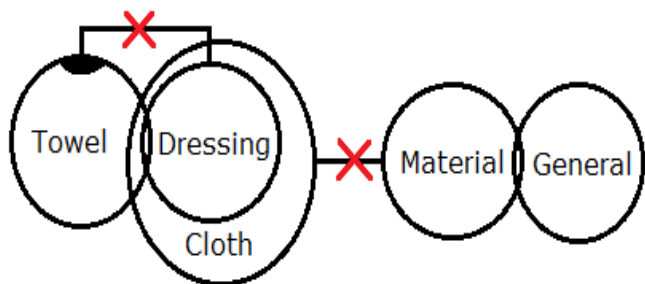
14. Answer: B
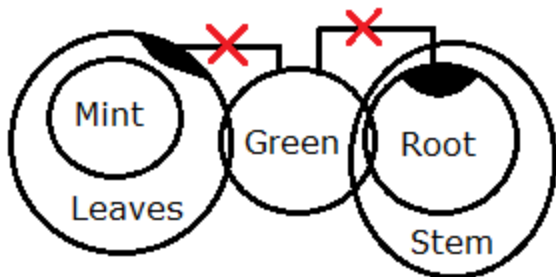
15. Answer: D
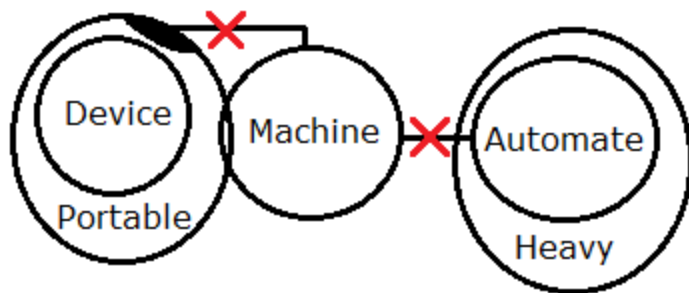
Direction (16-20):

16. Answer: B

17. Answer: D

18. Answer: A

19. Answer: C

20. Answer: C

Floor	Person
6	E
5	B
4	D
3	F
2	A
1	C

Staircase	Person
40	
39	
38	
37	
36	
35	B
34	
33	
32	
31	
30	
29	
28	F,E
27	
26	
25	
24	
23	
22	
21	
20	
19	
18	
17	D
16	
15	
14	
13	
12	
11	
10	A,C
9	
8	
7	
6	
5	
4	
3	
2	
1	

Floor	Case 1 Person	~~Case 2~~ Person
6	E	
5	B	
4	D	A
3	F	C
2	A	
1	C	B

Special conditions:

Before arrangement, the position of each person in the staircase is as follows.

Staircase	Person
40	
39	
38	
37	
36	E
35	
34	
33	
32	
31	
30	B
29	
28	
27	
26	
25	
24	D
23	
22	
21	
20	
19	
18	F
17	
16	
15	
14	
13	
12	A
11	
10	
9	
8	
7	
6	C
5	
4	
3	
2	
1	

- C lives in an odd numbered floor but not in floor five.
- A lives immediately above C.
- Only two persons live between A and B.
- F lives immediately below D, who doesn't live on the top-most floor.

Hence, case 2 gets eliminated.

The following shows the final outcome of the dice thrown by all the persons in the alphabetical order respectively.

A = (1,1) = 2 steps downward, B = (4,1) = 5 steps upward, C = (3,1) = 4 steps upward, D = (2,5) = 7 steps downward, E = (3,5) = 8 steps downward, F = (6,4) = 10 steps upward.

After arrangement, the position of each person in the staircase is as follows.

Staircase	Person
40	
39	
38	
37	
36	
35	B
34	
33	
32	
31	
30	
29	
28	F,E
27	
26	
25	
24	
23	
22	
21	
20	
19	
18	
17	D
16	
15	
14	
13	
12	
11	
10	A,C
9	
8	
7	
6	
5	
4	
3	
2	
1	

Direction (21-23):

21. Answer: B

D % G $ F @ R; C # E @ G & W; N % J $ C % T

D < G ≤ F =R; C > E = G ≥ W; N < J ≤ C < T

I. R % J – R < J – False

II. T # W – T > W – True

III. N % F – N < F – False

Hence, option B is correct.

22. Answer: E

M # H @ K & V; N @ K # P & D; B % P @ J # W

M > H = K ≥ V; N = K > P ≥ D; B < P = J > W

I. B $ H – B ≤ H – False

II. N & W – N ≥ W – False

II. V % D – V < D – False

Hence, option E is correct.

23. Answer: C

A & N # Y @ R; D % E $ V % L; N @ E # P & T

A ≥ N > Y = R; D < E ≤ V < L; N = E > P ≥ T

I. L # R – L > R – True

II. T % V – T < V – True

III. Y $ D – Y ≤ D – False

Hence, option C is correct.

Direction (24-28):

24. Answer: C

25. Answer: D

26. Answer: A

27. Answer: B

28. Answer: C

Units	Book	No. of boxes (Height)
6	D	4 (52cm)
5	A	2 (46cm)
4	C	5 (65cm)
3	F	6 (48cm)
2	B	3 (39cm)
1	E	7 (42cm)

- Book B is placed at an even numbered unit and immediately below the unit which has 6 boxes in it.
- The unit which has the height of 46cm is three units away from book B.
- Book D is placed immediately above the unit which has the height of 46cm.

Units	Case 1 Book	Case 1 No. of boxes (Height)	Case 2 Book	Case 2 No. of boxes (Height)
6			D	
5		6		(46cm)
4	B			
3				6
2	D		B	
1		(46cm)		

- The number of units above book D is one less than below the unit which has 3 boxes with each box in height of 13cm.
- Book E is placed immediately below the unit which has 3 boxes.
- Book C is placed along with 5 boxes with a unit height of 65cm.

Units	Case 1 Book	Case 1 No. of boxes (Height)	Case 2 Book	Case 2 No. of boxes (Height)
6		3 (39cm)	D	
5	E	6		(46cm)
4	B		C	5 (65cm)
3	C	5 (65cm)		6
2	D		B	3 (39cm)
1		(46cm)	E	

- One of the even numbered units contains 4 boxes with a unit height of 52cm which is immediately above the unit with book A.
- The height of the unit which has book F is 48cm.
- The height of the unit with 7 boxes is 42cm, which is the highest number of boxes.

Hence, case 1 gets eliminated.

Units	Case 1 Book	Case 1 No. of boxes (Height)	Case 2 Book	Case 2 No. of boxes (Height)
6		3 (39cm)	D	4 (52cm)
5	E	6	A	2 (46cm)
4	B	7 (42cm)	C	5 (65cm)
3	C	5 (65cm)	F	6 (48cm)
2	D	4 (52cm)	B	3 (39cm)
1	A	(46cm)	E	7 (42cm)

Direction (29-30):

29. Answer: D

From statement I, the relation of W is not given.

From statement II, the gender of both W and T are not given.

Hence, option D is correct.

30. Answer: B

From statement II, we get,

Floor	Person
7	R
6	N
5	P
4	S
3	M
2	Q
1	O

Hence, option B is correct.

Direction (31-33):

31. Answer: C

32. Answer: B

33. Answer: D

Based on the given information, then family tree is as follows.

E⁻
D⁻   C⁺ = F⁻   −   A⁺
         G⁻   B⁺
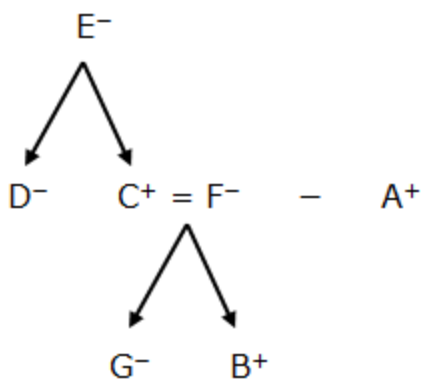
Their ages are in the order as given below.

E > D (43) > C > F > A (24) > B > G

Direction (34-37):

34. Answer: E

35. Answer: A

36. Answer: A

37. Answer: D

Input:	26	37	62	58	43
Step 1:	224	334	664	553	441
Step 2:	2114	3214	6514	5413	4311
Step 3:	21214	32114	65214	54213	43311
Step 4:	442121	443211	446521	335421	114331
Step 5:	56	60	88	54	13

Step 1: The first digit of the given number is retained as it is and the same digit is repeated as the second digit too. The third digit is the difference of the two digits of the given number.

Step 2: The first and last digits of the number is retained as the same and the middle digit is split into one and the difference of one and that digit. For example, 4 is split into 1 and 4-1=3 in descending order.

Step 3: The difference of the first and the last digit is retained as the middle digit of that number whereas the rest of the digits are retained the same.

Step 4: The last digit of the number is placed at first twice followed by the rest of the digits as it is.

Step 5: All the digits are added and the result is multiplied with the first digit of that number. For example, 2+2+4+3+2+1=14*2=28.

Direction (38-42):

38. Answer: D

39. Answer: C

40. Answer: C

41. Answer: B

42. Answer: C

Final arrangement:

	Case-II	
Year Month	2009	2010
Jan	Brazil P	Qatar T
April	Iran S	China X
July	Japan W	Russia R
Oct	Israel Q	France V

Here we have,

X is born in a month having an even number of days.

The number of persons born before X is same as the number of persons born after the one who belongs to Japan.

Here we get two possibilities.

	Case-I		Case-II	
Year Month	2009	2010	2009	2010
Jan				
April	X			X
July		Japan	Japan	
Oct				

Again we have,

Only one person is born between P and the one who belongs to Japan who is born after P.

The one who belongs to Japan and the one who belongs to Russia are born in the same month.

	Case-I		Case-II	
Year Month	2009	2010	2009	2010
Jan		P	P	
April	X			X
July	Russia	Japan	Japan	Russia
Oct				

Again we have,

Only four persons are born between W and the one who belongs to France.

W and R are born in the same month.

The one who belongs to France is born in a month of having an odd number of days.

	Case-I		Case-II	
Year Month	2009	2010	2009	2010
Jan		P	P	
April	X			X
July	Russia W	Japan R	Japan W	Russia R
Oct		France		France

Again we have,

S is born before July in 2009.

One person is born between S and the one who belongs to Israel.

	Case-I		Case-II	
Year Month	2009	2010	2009	2010
Jan	S	P	P	
April	X		S	X
July	Russia W	Japan R	Japan W	Russia R
Oct		France	Israel	France

Case-I gets eliminated because no space left for the one who belongs to Israel.

Again we have,

The one who belongs to Brazil is born before S.

The one who belongs to Qatar is born at least six months before V but not in April.

Both T and V are not born in the same month.

Q and the one who belongs to Brazil are born in the same year.

T does not belong to Brazil.

	Case-II	
Year	2009	2010
Month		
Jan	Brazil P	Qatar T
April	S	X
July	Japan W	Russia R
Oct	Israel Q	France V

Again we have,

Person who belongs to China and the one who belongs to Qatar are not born in different Years.

	Case-II	
Year	2009	2010
Month		
Jan	Brazil P	Qatar T
April	Iran S	China X
July	Japan W	Russia R

Oct	Israel Q	France V

43. Answer: E

Both course of action I and II follow. The situation can be tackled by periodic cuts in supply, and urging people to conserve water. So, both the courses follow.

44. Answer: D

The given statement is saying that the court asked the related Organization (PESO) to review the clinical composition of fireworks, particularly with respect to reducing aluminium content. In this statement it is no where mentioned that the court asked the schools colleges to take up public awareness campaigns informing the public about the harmful effects of firecrackers. Also, the statement did not mention that the firecrackers are causing pollution during Diwali and an entire industry. Therefore, both the statements are not implicit.

45. Answer: C

Both the statements I and II are independent causes . An increase in the cases of atrocities on women and the police being unable to nab the culprits involved in the same are independent happenings in themselves.

46. Answer: B

There is a likelihood that tobacco consumers will shift to cigarette smoking if cigarette prices were to reduce.

This is the exact assumption for the given statement

47. Answer: E

All the actions give a right course of action following problem caused by the incessant rain for the past several days.

48. Answer: C

Most trucks that are currently running in highway have a capacity of more than 8 tons.

This is the exact assumption for the given statement.

49. Answer: C

If this point was not true and the White rhinos have shifted to another location, then the conclusion will not hold good. However, if this point was actually true, it would clear any confusion and provide evidence for the foresters' view.

50. Answer: E

According to the statements, it is understood that the centre and state governments are not giving enough priority in developing the education system of government-run schools. They need fund infusion and all the facilities to be provided to government–run schools have to be among the highest national priorities. Therefore, both the conclusions follow.

IBPS PO Mains 2021 Memory Based

Directions (1-5): Study the following information carefully and answer the below questions.

(Covered in→ IBPS Clerk mains 2021 mock-1 (105-108), RRB Clerk mains 2021 mock-4(11-15)

Bundle PDF- SBI PO & IPBS PO Mains day-27(6-10), RRB Clerk & IBPS Clerk Mains day-6(1-5), RRB Clerk & IBPS Clerk Mains day-14(11-15), SBI Clerk & IBPS RRB PO Mains day-49(1-5)

Seven persons - C, E, I, M, R, T and U are sitting in a linear row such that all of them are facing towards north, but not necessarily in the same order. They are having different years of experience and each of them has at least one year of experience.

Note:

(i) Two persons whose names start with consonant letters are not sitting adjacent to each other.

(ii) Two persons whose names start with vowel letters are not sitting adjacent to each other.

(iii) If the person has an even number of experience, then the immediate neighbors of that

person must have an odd number of experience and vice versa.

M sits third to the left of the one who has 21 years of experience. U sits third to the left of the one who has 8 years of experience. The number of persons sitting to the left of the one who has 13 years of experience is the same as the number of persons sitting to the right of I. E sits to the immediate right of the one who has 24 years of experience. The persons who sit at the ends of the row are not having more than 20 years of experience. The sum of the experiences of U and E is six years more than the experience of M. T has three years less than that of I. T sits second to the right of R. The sum of the experiences of C and R is one year more than the experience of I.

1) As many persons sitting to the left of U as to the right of ____?
a) M
b) T
c) The one who has 21 years of experience
d) The one who has 17 years of experience
e) C

2) Who among the following person sits between U and R?
I. M
II. E
III. The one who has 21 years of experience
IV. The one who has 14 years of experience
a) Only I and II

b) Only III and IV
c) Only I and III
d) Only II and IV
e) All I, II, III and IV

3) Who among the following person sits at the right end of the row?
a) I
b) T
c) E
d) The one who has 17 years of experience
e) The one who has 13 years of experience

4) How many persons sit between E and the one who has 14 years of experience?
a) No one
b) Four
c) Three
d) One
e) Two

5) What is the position of U with respect to the one who has 17 years of experience?
a) Fourth to the right
b) Third to the left
c) Third to the right
d) Second to the left
e) Second to the right

Directions (6-7): In these questions, certain symbols have been used to indicate relationships between elements as follows. Find the conclusion which is definitely true. **(Covered in**

most number of mocks and Bundle PDF)

"A @ B" means "A is greater than B"

"A % B" means "A is not greater than B"

"A # B" means "A is less than B"

"A &B" means "A is not less than B"

"A ^ B" means "A is neither greater than nor less than B"

6) Statements:

G#M%B^K; Y@S&N^E^K

Conclusions:

a) M@N

b) G%S

c) S@K

d) M#E

e) M%S

7) Statements:

F@V&U&B; K#O%B@E

Conclusions:

a) F^O

b) V&O

c) E@U

d) K&E

e) F&E

8) A certain number of persons are standing in the queue one after another. At least 9 persons and not more than 12 persons are standing in the queue. R stands immediately in front of K. Only three persons stand between K and T. Q stands immediately after T who does not stand before R. Six persons stand between Q and C. E stands two persons before H. Only two persons stand between Q and H. How many persons stand between C and E?

a) Eight

b) Nine

c) Seven

d) Six

e) Five

Directions (9-13): Study the following information carefully and answer the below questions. (Not covered exact model but covered parallel arrangement questions in Mains Mocks and Mains Bundle PDF Course)

Twelve buildings are arranged from north to south in two rows. Each row has 6 buildings. In row 1 - A, B, C, D, E, and F are facing towards east while in row 2 - P, Q, R, S, T, and U are facing towards west. The buildings in both rows are exactly facing towards each other. Each building has different number of offices. None of the buildings has more than 25 offices.

F is located third to the left of the building which has 9 offices. The number of buildings located to the left of F is the same as the number of buildings located to the right of E. U is located exactly opposite to E. Only two buildings are located between U and the building which has 17 offices. Q is located third to the left of P. Both P and U are not located adjacent to each other. C is located exactly opposite to the building which is located to the immediate right of P. S is located third to the left of the building which has 12

offices. Q has twice the offices of T. A is located fourth to the left of D. F has one office less than that of D. E has twice the offices of F. The sum of the number of offices of R and T is two more than the sum of the number of offices of E and C. A has three offices more than that of C. P has two offices less than that of R. The sum of the number of offices of B and S is one less than that of Q. U has twice the offices of S. B has one office less than that of A.

9) Which of the following building is located second to the right of the building which has 24 offices?

a) The building which has 12 offices

b) The building which has 15 offices

c) S

d) R

e) U

10) Which of the following pair of buildings has an even number of offices?

I. TU

II. AF

III. BD

a) Only I and III

b) Only I

c) Only I and II

d) Only II

e) Only III

11) What is the average number of offices in buildings T, S, and C?

a) 12

b) 11

c) 10

d) 9

e) 14

12) Which of the following statement(s) is/are true with respect to the final arrangement?

a) P has 15 offices

b) The sum of the number of offices of U and S is 30

c) A is located to the immediate left of F

d) Only two buildings are there between R and U

e) All the above statements are true

13) How many buildings have more than 15 offices?

a) None

b) Three

c) Two

d) Four

e) One

Directions (14-16): In the following questions, the symbols @, $, and & are used with the following meanings as illustrated below. In each of the questions, some statements are followed by some conclusions. You have to take the given statements to be true disregards the commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregards the commonly known facts.**(Covered in Most number of Mock and Bundle PDF)**

P@Q → Only a few P is Q

P$Q → No P is Q

P&Q → Some P is Q

14) Statements:

A@B&C$D

Conclusions:

I. Some B are not D.

II. No C is A.

III. Some C can be A.

IV. All B can never be C.

a) Both II and III

b) Both III and IV

c) Both I and III

d) Both I and II

e) All are true

15) Statements:

G@H$L&M

Conclusions:

I. Some M are G.

II. All G can never be L.

III. No G is L.

IV. Some M can be H.

a) Both II and III

b) Both II and IV

c) Both I and III

d) Both I and II

e) All are true

16) Statements:

I@K&V&U

Conclusions:

I. Some K can be U.

II. Some I are not K.

III. Some V being U is a possibility.

IV. No V is I

a) Both II and III

b) Both II and IV

c) Both I and III

d) Both I and II

e) All are true

Directions (17-21): Study the following information carefully and answer the below questions.(Covered in· IBPS PO mains 2021 mock-7(10-13), RRB PO mains 2021 mock-8(16-19),IBPS Clerk mains 2021 mock-10(137-140) Bundle PDF- SBI PO & IPBS PO Mains day-28(11-15),SBI Clerk & IBPS RRB PO Mains day-21(11-15), SBI Clerk & IBPS RRB PO Mains day-49(6-10), RRB Clerk & IBPS Clerk Mains day-4(16-20)

Nine persons - A, B, C, D, E, F, G, H, and I are working in three different departments - Biotech, Electronic, and Mechanical and they like different colors - Silver, Navy, Teal, Golden, Blue, Pink, Green, Maroon, and White. All the information is not necessarily in the same order.

Note: At least two persons and not more than four persons are working in the same department. If it is given that "A is working with the one who likes Silver", then it means A does not like Silver but another person working along with A in the same department likes Silver.

G works with only the one who likes Green. G does not work in the Electronic Department. Both A and E work in the same department. B works

with the one who likes Maroon. Both C and F work in the same department along with B. F does not like Maroon. H works with the one who likes Blue. Both A and H work in the same department. Neither A nor E likes Blue. D neither works in Electronic nor Mechanical department. I does not like Blue. F works with the one who likes White. Both F and H like Golden and Teal colors, respectively. The one who likes pink does not work with E. E does not like Silver.

17) Which of the following combination(s) is/are true with respect to the final arrangement?

I. Biotech-B

II. C-Golden

III. G-Pink

a) Only I and III

b) Only III

c) Only I and II

d) Only II

e) None of the statements is false

18) Which of the following color is liked by the one who works with I?

a) Teal

b) White

c) Golden

d) Pink

e) Maroon

19) Which of the following pair of persons are working in the same department?

I. I and the one who likes Navy

II. The one who likes White and the one who likes Maroon

III. The one who likes Silver and C

a) Only II

b) Only I and III

c) Only III

d) All I, II, and III

e) None of these

20) Four of the following five are alike in a certain way and hence form a group, who among the following one doesn't belong to the group?

a) A-Navy

b) E-Teal

c) H-Green

d) B-Golden

e) I-Pink

21) Who among the following person works in the Mechanical department?

a) The one who likes Silver

b) The one who likes Green

c) The one who likes Maroon

d) F

e) D

Directions (22-24): Study the following information carefully and answer the below questions(Not covered this model but will cover in upcoming Mains Mock Test)

There are four junctions - A, B, C, and D. A is to the north of B and C is to the east of D such that the lines joining AB intersect CD at point O.

A%P means Car P starts from A, reaches point O then turns to its left.

A@Q means Car Q starts from A, reaches point O then turns to its right.

D#R means Car R starts from D, reaches point O then goes straight.

B*S means Car S starts from B, reaches point O then takes U turn.

D%G; C@T; B@Z; A#Y; C#X; B*M

22) Which of the following cars reaches, Junction A finally?

a) T

b) G

c) X

d) Both a and b

e) Both b and c

23) Four of the following five are alike in a certain way and hence form a group. Which of the following one does not belong to that group?

a) AT

b) CZ

c) DX

d) BM

e) CG

24) What is the direction of Z with respect to Y after the final movement?

a) North-east

b) North-west

c) South-east

d) South-west

e) Can't be determined

Directions (25-29): Study the following information carefully and answer the below questions.(Not covered this model but will cover in upcoming Mains Mock Test)

The management arranged the guest lecture in the auditorium. Some students are attending the guest lecture and they are sitting in three different rows such that all of them are facing towards north. Row1 is to the north of Row2 and Row3 is to the south of Row2. Each row has 10 seats. The right-most end seats of three rows, as well as the first seat from the left end of row2 and row3, are restricted.

Twelve students - Abe, Bil, Don, Geo, Jai, Len, Nic, Oli, Rex, Tim, Vic, and Yen forming two different groups - Group A and Group B are attending the guest lecture, but not necessarily in the same order.

Group A:

The students whose name starts with a letter that comes before M in the English alphabetical series belong to this Group.

Group B:

The students whose name starts with a letter that comes after M in the English alphabetical series belong to this Group.

The students in group A are sitting in the alternative seats starting with the second seat from the left end of Row 1 till Row3 in the reverse alphabetical order followed by the group B

students in the alphabetical order. All students are sitting in the alternative seats only.

Then, all the students are seated at two different circular tables - Table1 and Table2 such that all of them are facing towards the center. Six students are sitting on each table.

Table 1:

Jai sits second to the left of the one who sits to the immediate right of Abe in Row-2. The one who sits to the immediate right of Jai in row-1 sits second to the left of the one who sits second to the left of Nic in Row-2. The one who sits to the immediate right of Nic in row-2 sits to the immediate left of Geo. Both the one who sits to the immediate left of Tim in row-3 and Geo are immediate neighbors.

Table 2:

Yen sits third to the left of the one who sits to the immediate right of Geo in row-1. Abe sits second to the right of the one who sits to the immediate right of Geo in row-1. The one who sits to the immediate left of Yen in row-3 sits to the immediate left of the one who sits second to the right of Yen. The one who sits to the immediate left of Jai in row-1 sits second to the right of the one who sits to the immediate left of Abe in row-2.

25) Who among the following student does not sit on row2?

a) Bil

b) The one who sits to the left of Jai

c) Abe

d) The one who sits to the immediate left of Oli

e) The one who sits to the immediate right of Nic

26) Who among the following student sits third to the right of Tim in Table1?

a) The one who sits to the immediate left of Rex in table 1

b) The one who sits second to the right of Oli in table 1

c) Jai

d) Nic

e) None of the above

27) Who among the following student sits in table 2?

a) Geo

b) Rex

c) The one who sits to the immediate left of Bil

d) Oli

e)Nic

28) What is the position of Don with respect to Len in Table 2?

a) Third to the left

b) Second to the right

c) Second to the left

d) Immediate right

e) Immediate left

29) Which of the following statement(s) is/are true with respect to the given conditions?

a) Both Tim and Nic are not immediate neighbors in Table 1

b) Vic sits second to the left of Don in Table 2

c) Both Tim and Yen sit in the different rows

d) Both Abe and Don are not sitting at the same table

e) All the statements are true

Direction (30-31): Each of the questions below consists of a question and three statements numbered I, II, and III are given below it. You have to decide whether the data provided in the statements are sufficient to answer the question:(Covered in most number of mocks and bundle PDF)

30) Is G the grandmother of B?

Statement I: E is the father of C, who is the mother of B. K is the brother-in-law of S.

Statement II: S is the father of M, who is the brother of B. G is the mother-in-law of C's spouse.

Statement III: K is the Uncle of M. S does not have any siblings.

a) Both Statements I and II together is sufficient to answer the question

b) Both statements II and III together is sufficient to answer the question

c) Both statements I and III together is sufficient to answer the question

d) Only statement II alone is sufficient to answer the question

e) None of the above

31) Seven persons - P, Q, R, S, T, U, and V are sitting on the circular table such that all of them are facing towards the center, but not necessarily in the same order. Who among the following person sits third to the right of P?

Statement I: S sits second to the right of V, who sits to the immediate left of P. One person sits between P and Q, who doesn't sit adjacent to V.

Statement II: U sits second to the left of T. Two persons sit between T and P.

Statement III: R sits to the immediate right of U. Both P and U are not immediate neighbors.

a) Both Statements I and II together is sufficient to answer the question

b) Both statements II and III together is sufficient to answer the question

c) Both statements I and III together is sufficient to answer the question

d) Only statement II alone is sufficient to answer the question

e) None of the above

Direction (32-34): Study the following information carefully and answer the question given below:(Not covered this model but will cover in upcoming Mains Mock Test)

There are two rectangular parks such that one park is inscribed into another park. Eight gates i.e. A, B, C, D, E, F, G, and H are there in both the parks, but not necessarily in the same order. Each park has four gates. The gates of the inner park are open towards the outside whereas the gates of the outer park are open towards the inside. All the gates are in the middle of the sides of the parks. The gates of the inner park are facing exactly the gates of the outer park.

Note: Only the gates of different parks are facing towards each other.

Gate A is on the longer side of the inner park. Only two gates are between gates A and E. Gate G is facing towards gate D. Only one gate is between gates F and D. Gate C is facing the gate which is second to the right of gate H. Gate C is not adjacent to gate D. The number of gates between A and C is the same as the number of gates between B and H. Gate C is not on the immediate right of gate E.

32) Which among the following statement(s) is/are true with respect to the final arrangement?

I) Both gates C and A open towards inside.

II) Gate C is facing the gate which is to the immediate right of gate F.

III) Both the gates H and D are in the same park.

IV) The number of gates between H and D is the same as the number of gates between G and E.

a) Only I

b) Both II and III

c) All are true

d) Both III and IV

e) Only II

33) Four of the following five are related in a certain way and hence form a group. Find the following one which does not belong to that group?

a) DF

b) BH

c) AC

d) GE

e) AH

34) Which of the following gates are facing towards each other?

a) BA

b) GF

c) EH

d) DH

e) BC

Directions (35-38): Study the following information carefully and answer the below questions.(Covered in· IBPS PO mains 2021 mock-1(1-4), IBPS Clerk mains 2021 mock-1(130-133), IBPS Clerk mains 2021 mock-5(95-98), IBPS Clerk mains 2021 mock-6(132-135) Bundle PDF- SBI PO & IPBS PO Mains day-45(16-20), RRB Clerk & IBPS Clerk mains day-4(11-15).

A word and number arrangement machine, when given an input line, rearranges them by following a particular rule in each step. The following is an illustration of input and the rearrangement.

Input: Across Day 08 Eager Bear 21 33 However Informal 17 10 12

Step I: Day 09 Across Eager Bear 21 33 However Informal 17 10 12

Step II: Day 09 Bear 11 Across Eager 21 33 However Informal 17 12

Step III: Day 09 Bear 11 Eager 13 Across 21 33 However Informal 17

Step IV: Day 09 Bear 11 Eager 13 Across 16 21 33 However Informal

Step V: Day 09 Bear 11 Eager 13 Across 16 However 20 33 Informal

Step VI: Day 09 Bear 11 Eager 13 Across 16 However 20 Informal 32

Step VI is the last and the final output of the input. By following the same rules, find the steps and the final output of the input given below.

Input: Identify Eat 41 18 Actual 26 like 35 22 Gears However 37

35) How many elements are there between "Gears" and "35" in step III of the given input?

a) Five

b) Four

c) Three

d) Six

e) Two

36) What is the sum of the last three numbers from the right end in step VI of the given input?

a) 107

b) 108

c) 113

d) 110

e) 112

37) Which of the following represents step IV of the given input?

a) Eat 19 like 23 Identify 41 Actual 26 35 Gears However 37

b) Eat 19 like 23 Gears 27 Identify 41 Actual 35 However 37

c) Eat 19 like 23 Gears 27 Actual 34 Identify 41 However 37

d) Eat 19 like 23 Gears 27 Actual 34 Identify 36 41 However

e) Eat 19 like 23 Identify 41 26 Actual 35 Gears However 37

38) As many elements are arranged to the left of "Like" in step IV as to the right of _____ in step II of the given input?

a) 36

b) However

c) Gears

d) 41

e) Actual

Directions (39-43): Study the following information carefully and answer the below questions.(Covered in· RRB Clerk mains 2021 mock-10(15-18), SBI Clerk mains 2021 mock-3(158-160)

Bundle PDF- RRB Clerk & IBPS Clerk Mains day-13(6-10), SBI Clerk & IBPS RRB PO Mains day-34(6-10)

Five couples are living in a five-storey building such that the bottommost floor is numbered as one and the topmost floor is numbered as five.

Note I: Each floor has 2 flats viz., flat X and flat Y. Flat X is to the west of Flat Y.

Note II: Flat X of floor 2 is immediately above flat X of floor 1 and immediately below flat X of Floor 3 and so on.

Note III: The person whose name starts with a vowel is a female member. The couples are living on the same floor of the building.

R lives two floors above the one who is the spouse of C. At least one couple lives above R. Both C's spouse and R's spouse live in the same flat. The number of floors above C is the same as the number of floors below E. The number of floors between E and C is the same as the number of floors between A and I. The number of floors above A is one less than the number of floors below U. O's spouse lives immediately below U in the same flat. I's spouse lives to the east of I, who lives above G. E lives to the south of P's spouse. B lives northeast of U's spouse.

39) Who among the following person lives on the same floor of I?

a) P

b) The one who lives immediately below C

c) R

d) The one who lives immediately above U

e) G

40) If P is related to E and R is related to B in a certain way. Then who among the following is related to G?

a) U's spouse

b) The one who lives immediately above R

c) A

d) E

e) B

41) What is the direction of R's spouse with respect to B's spouse?

a) North-east

b) South-east

c) South-west

d) North-west

e) North

42) Who among the following person lives in flat Y?

a) P

b) R

c) I

d) The one who lives on the same floor with G

e) The one who is the spouse of I

43) On which of the following floor and flat does G's spouse live?

a) Floor 4, Flat Y

b) Floor 3, Flat Y

c) Floor 2, Flat X

d) Floor 1, Flat Y

e) Floor 1, Flat X

44-45) Covered critical reasoning questions in most number of mocks and bundle PDF

44. Statements:

I. Despite the fact that the lack of power in schools is taken note of by the Parliamentary Standing Committee which operates its own schemes and sponsors several school education programmes, India has not yet electrified a significant number of government schools.

II. According to data, only 56.45% of government schools had electricity and 56.98% a playground, while almost 40% lacked a boundary wall.

Conclusions:

I. The tardy progress on such important facilities, in spite of the projects having been sanctioned, shows the low priority that school education is being accorded.

II. The government-run school sector needs a fund infusion and a public school system that guarantees universal access, good learning and all facilities has to be among the highest national priorities.

a) Only conclusion I follows

b) Only conclusion II follows

c) Either conclusion I or II follows

d) Neither conclusion II nor conclusion II follows

e) Both conclusions I and conclusion II follow

45. Read the given statement and with that information answer the following question carefully.

After GST and demonetisation, rising interest rates are set to hurt SMEs. Interest rates for loans against property (LAP) extended to small and medium sized enterprises (SMEs) are set to rise in the coming months of 2018 ' Rising interest rates, in addition to the muted operating environment for small businesses in India, will lead to an increase in delinquencies on LAP extended to SMEs'. The introduction of the goods and services tax (GST) in July 2017 and the government's demonetization policy have placed stress on the SME sector, which rising interest rates will exacerbate.

Which of the following can be logically inferred from the statement above?

a) In addition to rising delinquencies over the last few years would force lenders to be more cautious while underwriting loans. This would limit refinancing options, adversely affecting existing borrowers.

b) But losses will be limited because these loans are secured and have relatively low loan-to-value ratios.

c) Rising interest rates will limit refinancing options and increase repayment amounts, increasing risks for asset backed securities (ABS) backed by LAP to SMEs.

d) The ABS (asset backed securities) backed by LAP extended to SMEs have non-amortizing cash reserves, substantial excess spread and the possibility to extend the life of the loans and hence the life of the transactions.

e) None can be inferred.

Answer Key with Explanation

Directions (1-5):
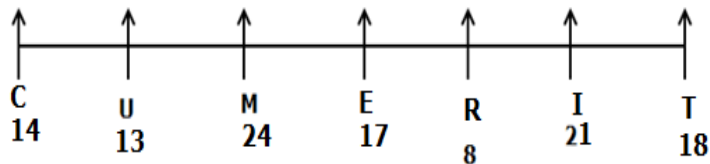
We have,

- M sits third to the left of the one who has 21 years of experience.
- U sits third to the left of the one who has 8 years of experience.

From the above condition, there are four possibilities.

Again we have.

- The number of persons sitting to the left of the one who has 13 years of experience is the same as the number of persons sitting to the right of I.
- E sits to the immediate right of the one who has 24 years of experience.

- The persons who sit at the ends of the row are not having more than 20 years of experience.
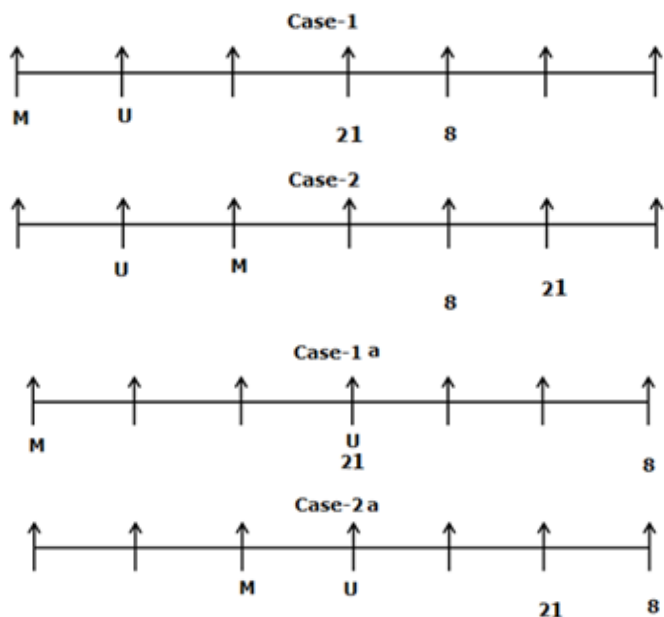
From the above condition, case-2a gets eliminated. Because there is no possibility to place I.
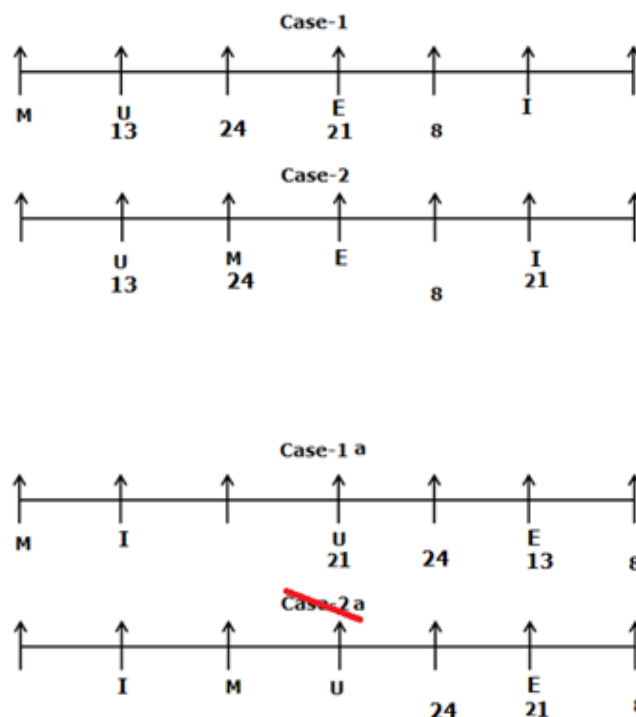
Again we have,

- The sum of the experiences of U and E is six years more than the experience of M.
- T has three years less than that of I.
- T sits second to the right of R.
- The sum of the experiences of C and R is one year more than the experience of I.

From the above condition, Case-1 and Case-1a get eliminated. Case-2 shows the final arrangement.

Case-1

M | U 13 | 24 | E 21 | 8 | I

Case-2

C 14 | U 13 | M 24 | E 17 / 8 | R 8 | I 21 | T 18

Case-1 a

M | I | U 21 | 24 | E 13 | 8

1	C
2	R
3	K
4	
5	
6	
7	T
8	Q
9	E
10	
11	H
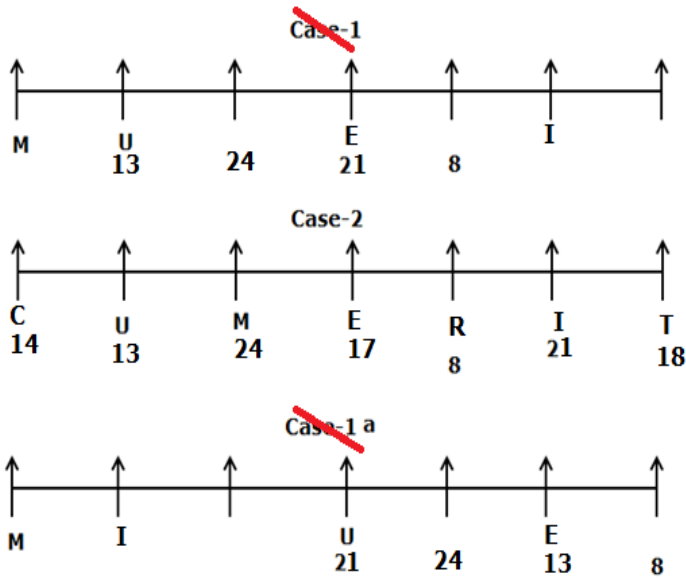
1) Answer: C

2) Answer: A

3) Answer: B

4) Answer: E

5) Answer: D

Directions (6-7):

6) Answer: E

a) M>N (M≤B=K=E=N) → False

b) G≤S (G<M≤B=K=E=N≤S) → False

c) S>K (K=E=N≤S) → False

7) Answer: B

a)F=O(F>V≥U≥B≥O) → False

b) V≥O (V≥U≥B≥O) → True

c) E>U(U≥B>E) → False

d) K≥E(E<B≥O>K) → False

e) F≥E(F>V≥U≥B>E) → False

d) M<E (M≤B=K=E) → False

e) M≤S (M≤B=K=E=N≤S) → True

8) Answer: C

Directions (9-13):

11 C →   ← R 17
14A →   ← P 15
8 F →   ← T 12
16E →   ← U 20
13 B →   ← Q 24
9 D →   ← S 10
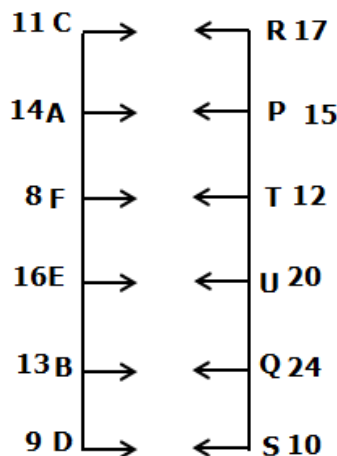
We have,

- F is located third to the left of the building which has 9 offices.
- The number of buildings located to the left of F is the same as the number of buildings located to the right of E.

- U is located exactly opposite to E.

From the above condition, there are three possibilities.
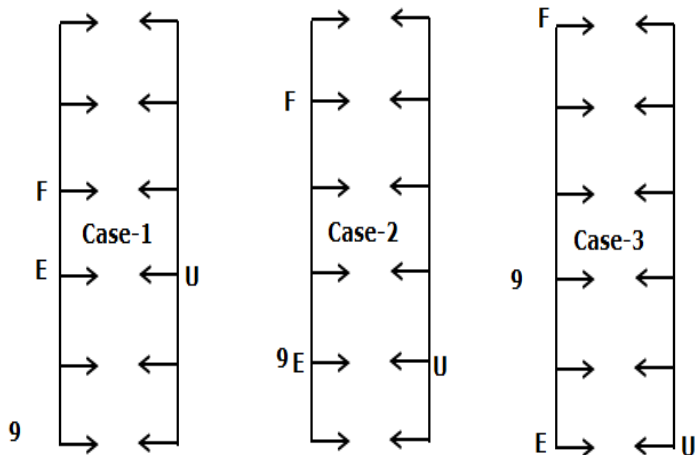
Again we have,

- Only two buildings are located between U and the building which has 17 offices.
- Q is located third to the left of P.

Both P and U are not located adjacent to each other.

- C is located exactly opposite to the building which is located to the immediate right of P.

From the above condition, Case-2 and Case-3 get eliminated.
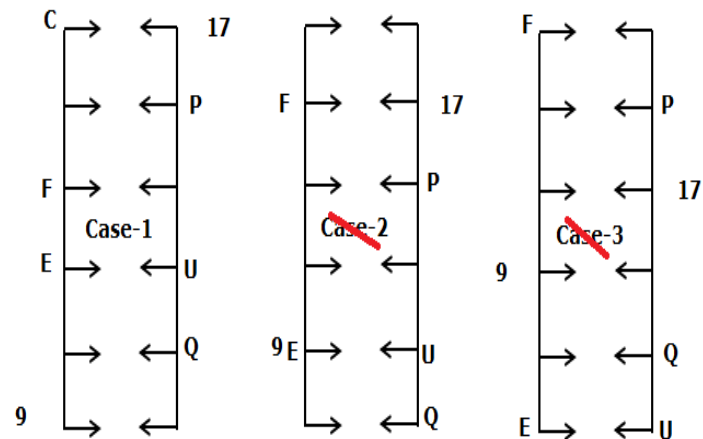
Again we have,

- S is located third to the left of the building which has 12 offices.
- Q has twice the offices of T.
- A is located fourth to the left of D.
- F has one office less than that of D.
- E has twice the offices of F.
- The sum of the number of offices of R and T is two more than the sum of the number of offices of E and C.

A has three offices more than that of C.
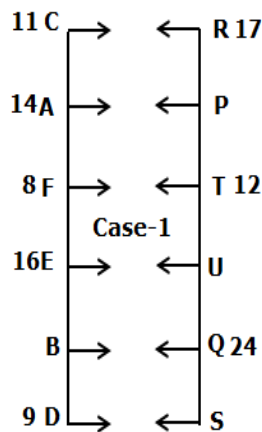
Again we have,

- P has two offices less than that of R.
- The sum of the number of offices of B and S is one less than that of Q.
- U has twice the number of offices than that of S.
- B has one office less than that of A.

From the above condition, case-1 shows the final arrangement.

Case-1
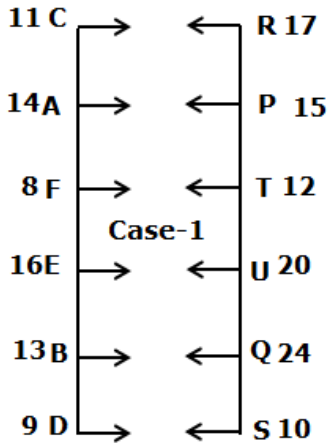
9) Answer: A

10) Answer: C

11) Answer: B

12) Answer: E

13) Answer: D

Directions (14-16):

14) Answer: C
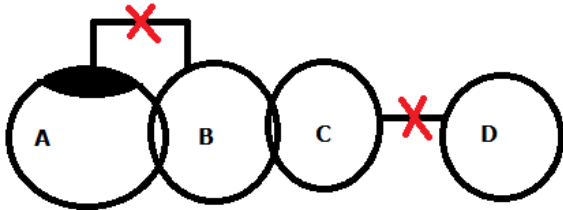
15) Answer: B
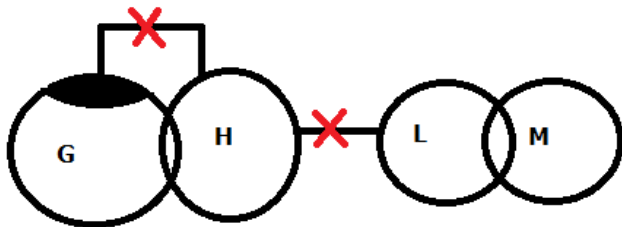
16) Answer: D
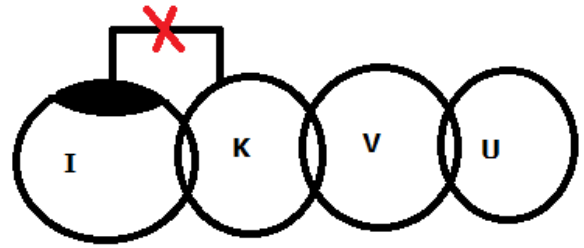
Directions (17-21):

Biotech	Electronic	Mechanical
A(Silver), E(Navy), H(Teal), D(Blue)	B(White), C(Maroon), F(Golden)	G(Pink), I(Green)

We have,

- G works with only the one who likes Green.
- G does not work in the Electronic Department.
- Both A and E work in the same department.

From the above condition, there are four possibilities.

	Biotech	Electronic	Mechanical
Case-1	G, (Green)	A, E	
Case-2		A, E	G, (Green)
Case-1a	G, (Green)		A, E
Case-2a	A, E		G, (Green)

Again we have,

- B works with the one who likes Maroon.

- Both C and F work in the same department along with B.
- F does not like Maroon.
- H works with the one who likes Blue.
- Both A and H work in the same department.

Neither A nor E likes Blue.

	Biotech	Electronic	Mechanical
Case-1	G, (Green)	A, E, H, (Blue)	B, C(Maroon), F
Case-2	B, C(Maroon), F	A, E, H, (Blue)	G, (Green)
Case-1a	G, (Green)	B, C(Maroon), F	A, E, H, (Blue)
Case-2a	A, E, H, (Blue)	B, C(Maroon), F	G, (Green)

Again we have,

- D neither works in Electronic nor Mechanical department.
- I does not like Blue.

From the above condition, Case-1, Case-2, and Case-1a get eliminated.

	Biotech	Electronic	Mechanical
~~Case-1~~	G,D (Green)	A, E, H,I (Blue)	B, C, F
~~Case-2~~	B, C, F	A, E, H,	G, (Green)

2		(Blue)	
~~Case-1a~~	G,D (Green)	B, C(Maroon), F	A, E, H,I (Blue)
Case-2a	A, E, H, D(Blue)	B, C(Maroon), F	G, I(Green)

Again we have,

- F works with the one who likes White.
- Both F and H like Golden and Teal colors, respectively.
- The one who likes pink does not work with E.
- E does not like Silver.

From the above condition, case-2a shows the final arrangement.

	Biotech	Electronic	Mechanical
Case-2a	A(Silver), E(Navy), H(Teal), D(Blue)	B(White), C(Maroon), F(Golden)	G(Pink), I(Green)

17) Answer: B

18) Answer: D

19) Answer: A

20) Answer: C

All the pair of the persons are working in the same department except option c

21) Answer: B

Directions (22-24):
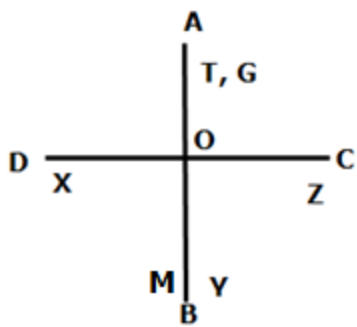
22) Answer: D

23) Answer: E

24) Answer: A

Directions (25-29):
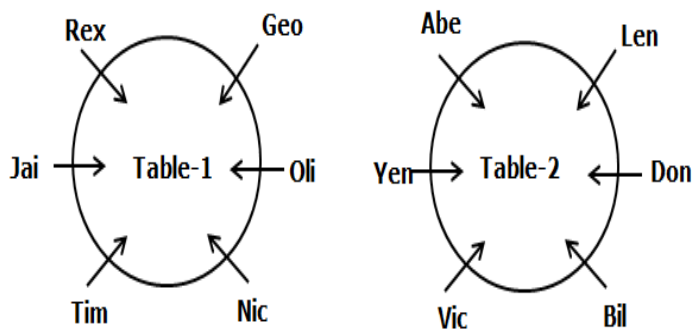
We have,

Twelve students - Abe, Bil, Don, Geo, Jai, Len, Nic, Oli, Rex, Tim, Vic, and Yen forming two different groups - Group A and Group.

Group A:

The students whose name starts with a letter that comes before M in the English alphabetical series belong to this Group.

Group B:

The students whose name starts with a letter that comes after M in the English alphabetical series belong to this Group.

Group A	Group B

Abe, Bil, Don, Geo, Jai, and Len	Nic, Oli, Rex, Tim, Vic, and Yen

The students in group A are sitting in the alternative seats starting with the second seat from the left end of Row 1 till Row3 in the reverse alphabetical order followed by the group B students in the alphabetical order. All students are sitting in the alternative seats only.

Table 1:

Jai sits second to the left of the one who sits to the immediate right of Abe in Row-2. The one who sits to the immediate right of Jai inrow-1 sits second to the left of the one who sits second to the left of Nic in Row-2. The one who sits to the immediate right of Nic in row-2 sits to the immediate left of Geo. Both the one who sits to the immediate left of Tim in row-3 and Geo are immediate neighbors.

Table 2:

Yen sits third to the left of the one who sits to the immediate right of Geo in row-1. Abe sits second to the right of the one who sits to the immediate right of Geo in row-1. The one who

sits to the immediate left of Yen in row-3 sits to the immediate left of the one who sits second to the right of Yen. The one who sits to the immediate left of Jai in row-1 sits second to the right of the one who sits to the immediate left of Abe in row-2.

25) Answer: B

26) Answer: A

27) Answer: C

28) Answer: E

29) Answer: B

Direction (30-31):

30) Answer: A

Both statements I and II together is sufficient to answer the question
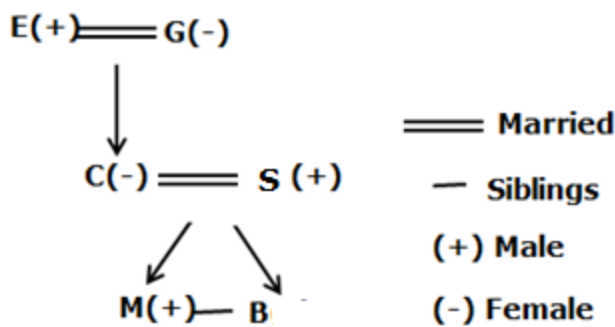
31) Answer: B

Both statements II and III together is sufficient to answer the question
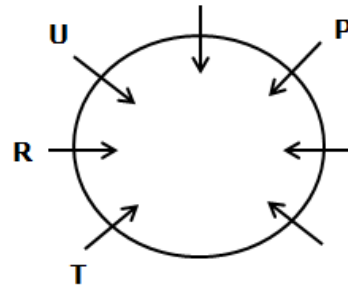
Direction (32-34):

- Gate A is on the longer side of the inner park.
- Only two gates are between gates A and E.
- Gate G is facing towards gate D.
- Only one gate is between gates F and D.

So, here we have 4 possible cases.
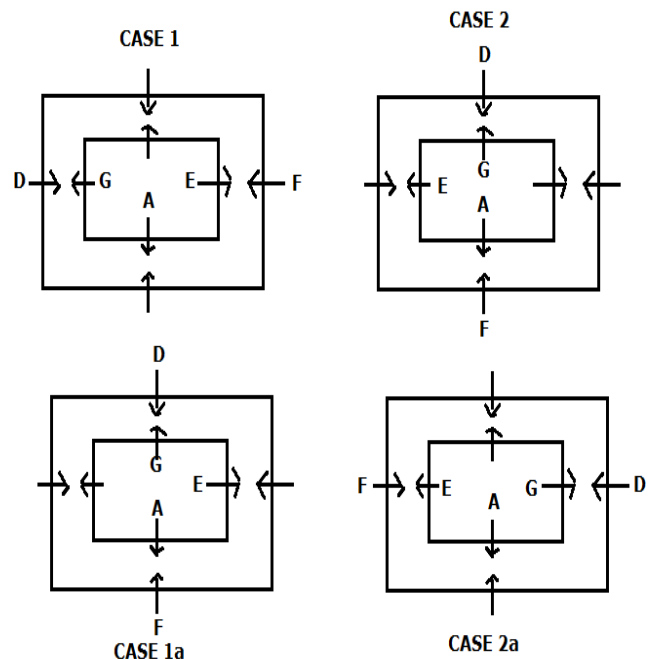
- Gate C is facing the gate which is second to the right of gate H.
- Gate C is not adjacent to gate D.

- The number of gates between A and C is the same as the number of gates between B and H.

From this condition, case 1a and case 2 get eliminated.
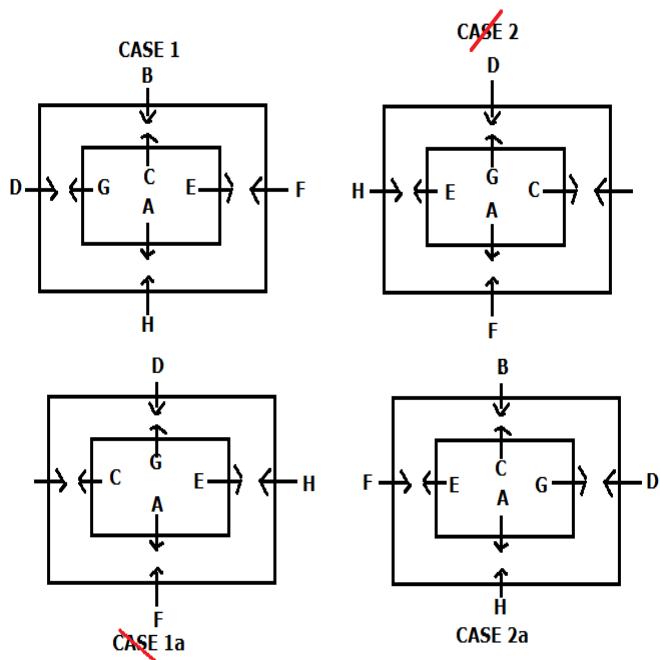
- Gate C is not on the immediate right of gate E.

So, Case 2a gets eliminated and case 1 shows the final arrangement.
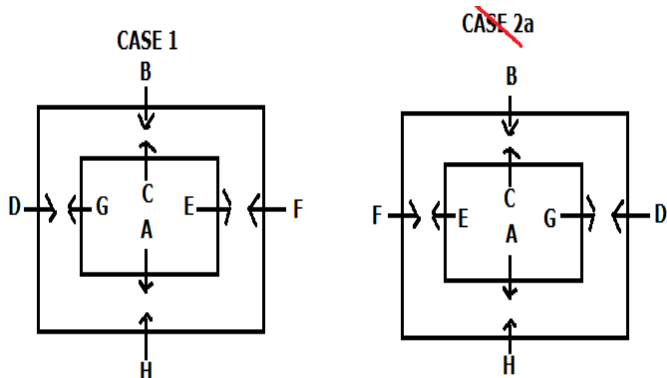
32) Answer: B

33) Answer: E

34) Answer: E

Directions (35-38):

For word arrangement: The words are arranged in ascending order from the left end, according to the total number of letters within the word.

For number arrangement: The numbers are arranged in ascending order from the left end. If the number is odd, then "1" is subtracted from that number, else if the number is even, then "1" is added to that number.

Input: Identify Eat 41 18 Actual 26 like 35 22 Gears However 37

Step I: Eat 19 Identify 41 Actual 26 like 35 22 Gears However 37

Step II: Eat 19 like 23 Identify 41 Actual 26 35 Gears However 37

Step III: Eat 19 like 23 Gears 27 Identify 41 Actual 35 However 37

Step IV: Eat 19 like 23 Gears 27 Actual 34 Identify 41 However 37

Step V: Eat 19 like 23 Gears 27 Actual 34 However 36 Identify 41

Step VI: Eat 19 like 23 Gears 27 Actual 34 However 36 Identify 40

Directions (39-43):

Floor	Flat X	Flat Y
5	P	A
4	R	E
3	I	B
2	C	U
1	O	G

We have,

- R lives two floors above the one who is the spouse of C.
- At least one couple lives above R.
- Both C's spouse and R's spouse live in the same flat.

From the above condition, there are four possibilities.

Floor	Case-1 Flat X	Case-1 Flat Y	Case-2 Flat X	Case-2 Flat Y	Case-3 Flat X	Case-3 Flat Y	Case-4 Flat X	Case-4 Flat Y
5								
4	R					R		
3			R					R
2	C					C		
1			C					C

Again we have,

- The number of floors above C is the same as the number of floors below E.
- The number of floors between E and C is the same as the number of floors between A and I.
- The number of floors above A is one less than the number of floors below U.
- O's spouse lives immediately below U in the same flat.
- I's spouse lives to the east of I, who lives above G.
- E lives south of P's spouse.

From the above condition, case-2 and case-4 get eliminated.

Floor	Case-1 Flat X	Case-1 Flat Y	Case-2 Flat X	Case-2 Flat Y	Case-3 Flat X	Case-3 Flat Y	Case-4 Flat X	Case-4 Flat Y
5	P	A			A	P		
4	R	E			E	R		
3	I		R		I			R
2	C	U			U	C		
1	O	G	C		G	O		C

Again we have,

- B lives to the northeast of U's spouse.

From the above condition, Case-3 gets eliminated. Case-1 shows the final arrangement.

Floor	Case-1 Flat X	Case-1 Flat Y	Case-3 Flat X	Case-3 Flat Y
5	P	A	A	P
4	R	E	E	R
3	I	B	I	B
2	C	U	U	C
1	O	G	G	O

39) Answer: D

40) Answer: A

41) Answer: A

42) Answer: E

43) Answer: E

44) Answer: E

According to the statements, it is understood that the centre and state governments are not giving enough priority in developing the education system of government-run schools. They need fund infusion and all the facilities to be provided to government–run schools have to be among

the highest national priorities. Therefore, both the conclusions follow.

45) Answer: A

The correct answer is option a, i.e. In addition to rising delinquencies over the last few years would force lenders to be more cautious while underwriting loans. This would limit refinancing options, adversely affecting existing borrowers.

IBPS Clerk Mains 2021 Memory Based

Directions (1-5): Study the following information carefully and answer the below questions.(Covered in→IBPS PO mains 2021 mock-8(11-13)

Bundle PDF- RRB Clerk & IBPS Clerk Mains day-25(1-5), SBI PO & IPBS PO Mains day-17(6-10)

Nine persons - A, B, C, D, E, F, G, H, and I are living in the three-storey building such that the bottom-most floor is numbered as one and the top-most floor is numbered as three, but not necessarily in the same order. Each person is from different countries viz. Australia, Brazil, Denmark, Hungary, India, Japan, New Zealand, Russia and Syria.

Note I: Each floor has 3 flats in it as flat P, flat Q, and flat R. Flat Q is to the west of Flat R and east of Flat P.

Note II: Flat P of floor 2 is immediately above flat P of floor 1 and immediately below flat P of Floor 3 and so on. In the same way, Flat Q of Floor 2 is immediately above flat Q of floor 1 and immediately below flat Q of Floor 3 and so on.

E lives two floors above the one who is from New Zealand but none of them lives in the same flat.

The one who is from New Zealand neither lives on flat P nor flat R. The number of floors above E is the same as the number of floors below A. The one who is from India lives to the west of A, who is not from New Zealand. G lives north-east of the one who is from Denmark. F lives to the west of the one who is from Denmark. The one who is from Hungary lives to the north of the one who is from Russia. A is neither from Russia nor Japan. The one who is from Australia lives north-east of H. H is neither from Denmark nor New Zealand. B lives to the east of I. The one who is from Japan lives southeast of C. G is neither from Brazil nor Australia. E is neither from Brazil nor Syria.

1) Who among the following person is from Japan?

a) The one who lives immediate south of G

b) The one who lives immediate north of D

c) F

d) H

e) E

2) Which of the following combinations are false with respect to the final arrangement?

I. E - Hungary

II. I - Denmark

III. A - Syria

IV. D - Russia

a) Only I and IV

b) Only I and III

c) Only III and IV

d) Only II and III

e) Only I and II

3) Which of the following combination of the persons are living on floor 2?

a) HIG

b) FCB

c) ECG

d) FIB

e) HDB

4) In which of the following floor and flat does C live?

a) Floor 2, Flat P

b) Floor 3, Flat Q

c) Floor 1, Flat P

d) Floor 2, Flat R

e) Floor 1, Flat Q

5) The person who lives in flat R on floor 3 is from which of the following country?

a) Australia

b) Syria

c) Hungary

d) Russia

e) Denmark

Directions (6-8): Study the following information carefully and answer the below questions.**(Covered in→IBPS Clerk Mains 2021 Mock Test – 1(102-104), IBPS Clerk Mains 2021 Mock Test – 5(117-119), IBPS Clerk Mains 2021 Mock Test –8(30-32), RRB Clerk Mains 2021 Mock Test –5(20-22), IBPS PO Mains 2021 Mock Test – 1(9-11)**
Bundle PDF- SBI Clerk & IBPS RRB PO Mains day-6(1-5), SBI Clerk & IBPS RRB PO Mains day-17(11-13)(14-15), SBI PO & IPBS PO Mains day-25(11-13)(14-15)

A@B(18m) → A is 15m north of B

A#B(13m) → A is 8m south of B

A$B(10m) → A is 17m east of B

A%B(12m) → A is 16m west of B

A&BC → A is in the middle of B and C

Note: A#$B means A is to the southeast of B.

K@V(10); G@M(17); Z#M(20); S#O(17); K$S(5); G%O(20)

6) What is the direction of M with respect to V?

a) @%

b) #$

c) #%

d) @$

e) @

7) If A@Z%V, then what is the distance between V and A?

a) 30m

b) 34m

c) 36m

d) 38m

e) 32m

8) Four of the following five are alike in a certain way and hence form a group. Which of the following one does not belong to the group?

a) OM

b) SM

c) KZ

d) GK

e) OZ

Directions (9-13): Study the following information carefully and answer the below questions. Bundle PDF- RRB Clerk & IBPS Clerk Mains day-21(6-10), SBI Clerk & IBPS RRB PO Mains day-29(16-20), SBI PO & IPBS PO Mains day-28(16-20), SBI PO & IPBS PO Mains day-40(1-5)

Twelve persons - A, B, C, D, E, F, G, H, I, J, K and L are sitting around a hexagonal table, but not necessarily in the same order. Six persons are sitting on the corners and facing outside while six persons are sitting in the middle of the sides and facing inside the table.

Note: The consecutive alphabetically named persons are not sitting adjacent to each other.

One person sits between H and A who sits in the middle of the sides of the table. H sits fourth to the right of B. One person sits between B and C. C sits second to the right of D. K sits to the immediate right of I, who faces outside. Two persons sit between K and J. The number of persons sitting between H and K is the same as the number of persons sitting between G and L,

when counted from the right of both H and G. Both L and D are not immediate neighbours. The number of persons sitting between F and K is one less than the number of persons sitting between F and G when counted from the right of both G and K. F does not sit adjacent to A.

9) Who among the following person sits exactly opposite to D?

a) The one who sits to the immediate right of J

b) The one who sits third to the right of I

c) C

d) L

e) B

10) Who among the following pair of persons are immediate neighbors?

I. EH

II. FJ

III. LB

a) Only I

b) Only I and III

c) Only III

d) All I, II, and III

e) None of these

11) Four of the following five are alike in a certain way and hence form a group, who among the following one doesn't belong to that group?

a) The one who sits to the immediate right of D

b) The one who sits second to the left of G

c) The one who sits third to the right of H

d) L

e) C

12) Who among the following person sits second to the left of F?

a) L

b) The one who sits to the immediate left of H

c) The one who sits second to the left of I

d) K

e) A

13) Which of the following statement(s) is/are true with respect to the final arrangement?

I. Three persons sit between F and E, when counted from the left of E.

II. G sits to the immediate left of A.

III. A sits third to the right of E.

a) Only II and III

b) Only III

c) Only I and II

d) Only II

e) All the statements are true

Directions (14-16): In these questions, certain symbols have been used to indicate relationships between elements as follows: (Covered in most number of mocks and Bundle PDF)

"P$Q" means "P is not less than Q"

"P#Q" means "P is not greater than Q"

"P@Q" means "P is neither less than nor equal to Q"

"P&Q" means "P is neither greater than nor equal to Q"

"P%Q" means "P is neither greater than nor less than Q"

14) Statements:

G#B%U#S&N; M@O$L@S

Conclusions:

I) B&L

II) M@U

III) G#O

a) None follows

b) Only I and II follow

c) Only II follows

d) Only III follows

e) Either I or II follows

15) Statements:

I@U$M%E; I&G#L%P#Z

Conclusions:

I) G@E

II) P$M

III) Z#U

a) None follows

b) Only II follows

c) Only I follows

d) Only III follows

e) Only I and II follow

16) Statements:

N#V%M@S; Q&M$G%K; G$Y%O

Conclusions:

I) V$O

II) N@Q

III) Y#M

a) None follows

b) Only I follows

c) Only II follows

d) Only III follows

e) Only I and III follow

Directions (17-21): Study the following information carefully and answer the below questions.(Covered in→RRB Clerk mains 2021 mock-2(27-31), RRB Clerk mains 2021 mock-10(8-11)
Bundle PDF- RRB Clerk & IBPS Clerk Mains day-28(11-15), RRB Clerk & IBPS Clerk Mains day-42(11-15), SBI Clerk & IBPS RRB PO Mains day-11(1-5),

Seven persons - A, B, C, D, E, F, and G are sitting in a linear row such that all of them are facing towards north, but not necessarily in the same order. They were born in different years. Their ages are calculated with respect to the base year 2022.

F's age is 36. F sits third to the right of the one who is one year elder than F but none of them sits at any of the ends of the row. E sits to the left of the one who was born in 1985. E's age is equal to the sum of the digits of the F's born year. Only two persons sit between E and G. The number of persons sitting between E and G is the same as the number of persons sitting between F and A. The number of persons sitting to the left of A is the same as the number of persons sitting to the right of the one whose age is half of the age of F. B is an immediate neighbor of the one whose age is six years elder than G. The one who was born in 1990 sits third to the left of the one who was born in 1994. The difference between the ages of B and C is the same as the

difference between the ages of D and G. G is younger than D. C is elder than F.

17) What is the sum of the ages of E and the one who sits to the immediate left of G?
a) 70
b) 52
c) 54
d) 69
e) 78

18) What is the position of B with respect to the one who was born in 1985?
a) Second to the right
b) Second to the left
c) Immediate left
d) Immediate right
e) Third to the left

19) Four of the following five are alike in a certain way and hence form a group, who among the following one doesn't belong to that group?
a) D
b) G
c) The one who was born in 1985
d) The one whose age is 36
e) The one who sits to the immediate right of B

20) Who among the following person sits fourth to the right of the one whose age is 24?
a) The one who was born in 1998
b) B
c) The one whose age is 37
d) The one who sits to the immediate right of D

e) The one who sits to the immediate left of C

21) Which of the following combinations are true with respect to the final arrangement?

I. B-18

II. A-1998

III. D-1994

IV. C-42

a) Only I and II

b) Only III and IV

c) Only I and III

d) Only II and IV

e) All I, II, III and IV

Directions (22-24): Study the following information carefully and answer the below questions(Covered in→IBPS Clerk mains 2021 mock-1(128-129), IBPS Clerk mains 2021 mock-7(128-130), RRB Clerk mains 2021 mock-10(22-23)

Bundle PDF- RRB Clerk & IBPS Clerk mains day-5(1-3)(4-5), RRB Clerk & IBPS Clerk mains day-19(1-3)(4-5), RRB Clerk & IBPS Clerk mains day-42(16-17),

A@B means A is the father of B

A#B means A is the daughter of B

A$B means A is the son of B

A%B means A is the mother of B

A*B means A is the sibling of B

AB means Both A and B are a married couples.

H@V%K#R; U$MH; N$SU

22) How is R related to U?

a) Brother

b) Sister

c) Sister-in-law

d) Can't be determined

e) Brother-in-law

23) How many male members are there in the family?

a) 3

b) 5

c) 4

d) Can't be determined

e) 2

24) Which of the following symbols should be placed in the blank space to complete the given expression in such a manner that X is the maternal grandparent of N?

X_S%G*N

a) $

b) @

c) %

d) Either b or c

e) Either a or b

Directions (25-29): Study the following information carefully and answer the below questions.(Covered in→IBPS Clerk mains 2021 mock-8(103-107), RRB PO mains 2021 mock-7(10-12)

Bundle PDF- RRB Clerk & IBPS Clerk Mains day-36(6-10), SBI Clerk & IBPS RRB PO Mains day-20(16-20)

A certain number of boxes are kept in the stack one above the other. There are two stacks - Stack1 and Stack2 from West to East respectively.

Note: If box A is kept immediately above box B, then both the boxes may or may not be kept on the same stack. Both stack-1 and stack-2 have different number of shelves such that the lowermost shelf is numbered as 1, the shelf immediately above is numbered as 2 and so on.

Box J is kept three shelves above box C, where both the boxes are kept on the same stack. Only one shelf is there between C and F. Box F is kept immediate southwest shelf of box E. Box T is kept two shelves above box J on the same stack. No boxes are kept above box T.Box G is kept immediately above box L, where both are kept on the same stack. Both boxes E and L are kept in different stacks. Not more than two shelves are there below box C. Box B is kept two shelves above box G, where both are kept on the same stack. Box A is kept immediate north-west shelf of box W. Box L is kept on the same shelf with box Y. Box D is kept immediate northeast shelf of box A. Box K is kept on an adjacent shelf of box Y.

25) How many boxes are kept on stack 2?

a) Three

b) Seven

c) Six

d) Five

e) Four

26) Four of the following five are alike in a certain way and thus form a group. Which of the following one does not belong to that group?

a) AE

b) CD

c) LY

d) TW

e) GK

27) Which of the following statement(s) is/are true with respect to the final arrangement?

I. Box C and Box E are kept on different stacks.

II. Box B is kept immediately below box J.

III. Only one shelf is there between Box G and Box D.

a) Only I and III

b) Only III

c) Only I and II

d) Only II

e) None of these

28) Box K was kept on which of the following shelf and stack?

a) Stack2, Shelf2

b) Stack1, Shelf3

c) Stack1, Shelf4

d) Stack2, Shelf5

e) Stack2, Shelf3

29) How many shelves are there on stack1?

a) Six

b) Seven

c) Eight

d) Nine

e) Ten

Directions (30-33): Study the following information carefully and answer the below questions.(Covered in→RRB Clerk mains 2021 mock-2(20-23)

Bundle- SBI Clerk & IBPS RRB PO Mains day-41(6-10), SBI PO & IPBS PO Mains day-5(1-5)

Words and numbers arrangement machines when given an input line of numbers rearrange them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: Catch 63 Trust Shelf 35 Fifty 42 North 21 11

Step I: 11 C@tch 63 Trust Shelf 35 Fifty 42 North 21

Step II: 11 C@tch 63 Trust Shelf 35 42 North 21 F#fty

Step III: 11 C@tch 35 N$rth 63 Trust Shelf 42 21 F#fty

Step IV: 11 C@tch 35 N$rth 63 Trust 42 Sh%lf 21 F#fty

Step V: 11 C@tch 35 N$rth 63 Tr&st 42 Sh%lf 21 F#fty

Step V is the last step.

Input: 78 Lunch Might 54 60 Bench Chart 19 25 Forty

30) Which of the following element is third from the right end of step III?

a) 25

b) 60

c) 78

d) Might

e) Lunch

31) How many letters are between the first letter of the fourth element from the left end and the fourth letter of the third element from the right end in step II in the English alphabetical series?

a) Three

b) Six

c) Four

d) Five

e) Seven

32) In which of the following step the number of elements in between 'Lunch' and 'Ch@rt' is maximum?

a) Step 1

b) Step 2

c) Step 3

d) Step 4

e) Step 5

33) What is the position of "Might" from the right end in step IV?

a) Second

b) Third

c) Sixth

d) Fifth

e) Fourth

34) **Statement:** Many professionals have been reporting that they feel dizzy because of long working hours and headache as they work for

long hours on the computers which is necessary for their jobs

Course of Action:

I.Small breaks of about 10 minutes or so can be taken every 2 hours to take a stroll, drink water etc in between

II. Neck and Shoulder exercises can help relieve the stiffness in the   body that is felt in the body due to long sitting hours

a) Only I follows

b) Either I or II follows

c) Both I and II follow

d) Only II follows

e) None follows

Directions (35-38): Study the following information carefully and answer the below questions.(Not covered this model but will cover in upcoming Mains Mock Test/Bundle Course)

Eight persons- P, Q, R, S, T, U, V and W are from three different states- Punjab, Haryana, and Rajasthan and they were born in different months- January, March, May, June, July, September, October and November. All the information is not necessarily in the same order.

Note:At least two persons not more than three persons are from the same states. If A is from the same state as the one who was born in March, then A was not born in March.

The one who was born in November is from the same state of S. S is not from Haryana. The one who was born in October is the only person from the same state of Q. Both T and Q were born in the month which has an odd number of days. P

and V are from the same state but from neither Rajasthan nor Haryana. P and R were born in the month which has an odd number of days. T is from the same state of the one who was born in September. The one who was born in September is from the same state of neither S nor Q. R is from the same state of the one who was born in July. The one who was born in July is from neither Punjab nor Rajasthan. Neither W nor U was born in November. P is not born in May. The one who was born in June and the one who was born in May are from the same state. S was not born in January. W was not born in September.

35) Who among the following person was born in March?

a) The one who is from the same state of U

b) The one who is from the same state of R

c) S

d) P

e) V

36) R was born in which of the following month?

a) October

b) November

c) July

d) May

e) September

37)Which of the following pair of persons are from Rajasthan?

a)PUW

b)PSV

c)QR

d)TUW

e) VPR

38) Which of the following statement is true?

a) U and W were born in the month which has an even number of days.

b) Q was born in July

c)P and S are from the same state

d) All the statements are true

e) W was born in June

Direction (39-41): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question:(Covered in Most number of Mock and Bundle PDF)

39)Eight persons- L, M, N, O, P, Q, R, and S are sitting around a circular table facing the center but not necessarily in the same order. Who among the following person sits third to the left of R?

Statement1:N sits third to the right of O. M sits immediate left of O. R sits immediate right of S. S sits adjacent to neither N nor O.

Statement2: Only two persons sit between S and O. Only one person sits between R and O. L sits second to the right of O. P and S are immediate neighbours.

a) If the data given in statement I alone is sufficient to answer the question.

b) If the data given in statement II alone is sufficient to answer the question.

c) If the data given in either statement I or statement II alone is sufficient to answer the question.

d) If the data given in both statement I and statement II together are sufficient to answer the question.

e) If the data given in both statement I and statement II together are not sufficient to answer the question.

40)Seven persons- A, B, C, D, E, F and G are sitting in a linear row facing the north but not necessarily in the same order. How many persons sit to the right of D?

Statement1:A sits second to the left of G who sits immediate left of C. Neither A nor C sit at the end of the row. Only one person sits between C and D who does not sit at the end of the row.

Statement2:F sits third to the left of G. Only one person sits between G and E. C sits immediate left of E. B sits to the left of F who is not an immediate neighbour of D.

a) If the data given in statement I alone is sufficient to answer the question.

b) If the data given in statement II alone is sufficient to answer the question.

c) If the data given in either statement I or statement II alone is sufficient to answer the question.

d) If the data given in both statement I and statement II together are sufficient to answer the question.

e) If the data given in both statement I and statement II together are not sufficient to answer the question.

41) What does "it yv" represent in a code language?

Statement1: "Deer Horse Lion" coded as "af bh it". "Horse Bat Goose" coded as "bh eg mh", "Bat Deer Eagle" coded as "eg af yv"

Statement2: "Eagle Boar Monkey" coded as "yv ex hz". "Horse Eagle Lion" coded as "bh yv it", "Boar Lion Giraffe" coded as "ex it nm".

a) If the data given in statement I alone is sufficient to answer the question.

b) If the data given in statement II alone is sufficient to answer the question.

c)If the data given in either statement I or statement II alone is sufficient to answer the question.

d) If the data given in both statement I and statement II together are sufficient to answer the question.

e) If the data given in both statement I and statement II together are not sufficient to answer the question.

Directions (42-45): Study the following information carefully and answer the below questions.(Not covered exact model but covered month with year based model questions in Mains Mocks and Mains Bundle PDF Course)

Unknown number of persons were born in different months of two different years either 2001 or 2002. Information about some of them is known.

Note: No one was born in January and December of both years.

E was born in May of an odd-numbered year. Only three months were between E and M. Only one month was between E and G. Y was born before E but not in February. The number of persons born before Y is the same as the number of persons born after P. S was born in the month which has an even number of days but after P. The number of persons born between P and S is the same as between J and M. Q was born three months after J. Q and G were born in the same year. F was born two months before R, both of them were born in the month which has an odd number of days. R and E were born in different months. The number of persons born between P and F is the same as between R and I. H was born two months after I.

42) Who among the following person was born in June 2001?

a) The one who was born two persons after G

b) Unknown person

c) J

d) The one who born immediately before F

e) Y

43) How many known persons were born between the one who was born immediately

before F and the one who was born two months after G?

a) More than Seven

b) Two

c) Seven

d) Six

e) Five

44) Q was born in which of the following month and year?

a) September 2001

b) March 2002

c) October 2001

d) February 2002

e) November 2001

45) How many known persons were born in the month which has an odd number of days?

a) Four

b) Eight

c) Five

d) Seven

e) Six

46-50) Covered critical reasoning questions in most number of mocks and bundle PDF

46) Statement: Unplanned grey areas are restricting the amount of water percolating into the earth. Water absorption takes places only in open areas and even then it is less than 7 per cent. Nearly 20-30 per cent of water absorbed by the surface will also evaporate and the rest is wasted

Course of Action:

I. The government must pay attention to the infrastructure of the city as it needs upgradation

II. If local corporation must make plans for the city, as there is a lot of potential to harvest water

a) Only I follows

b) None follows

c) Either I or II follows

d) Only II follows

e) Both follow

47) Statement: Indian carriers have announced a fresh slew of discounted ticket fares to bolster demand in the lean travel season.

Assumptions:

I. Indians tend to book flights when they find good deals and huge discounts

II. Discounted tickets will urge the people to plan their travels

a) None can be assumed

b) Only I can be assumed

c) Either I or II can be assumed

d) Both I and II can be assumed

e) Only II can be assumed

48) Effect: Three people on an average are killed every day in the capital while crossing the railway tracks, according to the data released by the Delhi Police.

Probable Cause:

 A. Most of the deaths occur because people have earplugs on, while crossing the tracks and are unable to hear the approaching train.

B. There is a lack of manned railway crossings which together lead to unmanageable commuters' flow within the stations.

C. Railroad accidents are always caused by railway and drivers of high speed train.

D. Most of these deaths are due to the collision of trains.

E. Most common causes for run–over deaths are attempting to alight from the compartment before the train stops fully.

a) Only A

b) Only B

c) Both A and B

d) All A, B and E

e) All A, B, C, D and E

Directions (49-50): Study the information given carefully and answer the questions that follow

Integration of technology platforms is the key challenge for the merger even as the government has selected the merger partners based on their IT compatibilities instead of geographic reach. Harmonizing human resource issues will be another key aspect of these mergers, as was seen in the past.

49) Which of the following is the most logical conclusion that can be made from the paragraph above?

a) Banks will take more than a year to settle with the changes in the systems and processes

b) Managing the bad loans will be the key during the process of the mergers

c) Dealing with the merger challenges of Tech and HR is going to be a mammoth task for the banks

d) Each bank had got a certain level of customization done, depending on the reporting and MIS needs.

e) None of the above

50) Statement: Players like Amazon and Flipkart as well as industry watchers noted that the need for social distancing and prioritising safety during the pandemic led to millions of people turning to e-commerce platforms this past year, not only in metros but also in tier III regions and beyond.

Inferences:

I. The pandemic brought about a "structural shift" in shopping behaviour with more and more customers and businesses relying on e-commerce.

II. The Indian e-commerce market has been one of the biggest beneficiaries of the pandemic

III. The new normal of working and learning from home also fuelled demand for consumer electronic products

a) Only III follows

b) I and III follows

c) Only II follows

d) Only I and either II or III follows

e) Only I and II follow

Answer Key with Explanation

Directions (1-5):

1) Answer: A

2) Answer: C

3) Answer: D

4) Answer: B

5) Answer: B

Final Arrangement

Floor	Flat P	Flat Q	Flat R
3	E-Hungary	C-Australia	G-Syria
2	F-Russia	I-Denmark	B-Japan
1	H-India	D-New Zealand	A-Brazil

We have,

- E lives two floors above the one who is from New Zealand but none of them lives in the same flat.
- The one who is from New Zealand neither lives on flat P nor flat R.
- The number of floors above E is the same as the number of floors below A.
- The one who is from India lives to the west of A, who is not from New Zealand.

From the above condition, there are two possibilities.

	Case-1			Case-2		
Floor	Flat P	Flat Q	Flat R	Flat P	Flat Q	Flat R
3	E					E
2						
1	-India	-New Zealand	A	-India	-New Zealand	A

Again we have,

- G lives north-east of the one who is from Denmark.
- F lives to the west of the one who is from Denmark.
- The one who is from Hungary lives to the north of the one who is from Russia.
- A is neither from Russia nor Japan.

From the above condition, Case-2 is eliminated. Case-1 has one more possibility.

	Case-1			Case-2		
Floor	Flat P	Flat Q	Flat R	Flat P	Flat Q	Flat R
3	E		G-Hungary			E
2	F	-Denmark	-Russia			
1	-India	-New Zealand	A	-India	-New Zealand	A

	Case-1a		
Floor	Flat P	Flat Q	Flat R
3	E-Hungary		G
2	F-Russia	-Denmark	
1	-India	-New Zealand	A

Again we have,

- The one who is from Australia lives north-east of H.
- H is neither from Denmark nor New Zealand.
- B lives to the east of I.
- The one who is from Japan lives southeast of C.
- G is neither from Brazil nor Australia.
- E is neither from Brazil nor Syria.

From the above condition, case-1 is eliminated. Case-1a shows the final Arrangement.

Floor	Case-1			Case-1a		
	Flat P	Flat Q	Flat R	Flat P	Flat Q	Flat R
3	E	C-Australia	G-Hungary	E-Hungary	C-Australia	G-Syria
2	F	I-Denmark	B-Russia	F-Russia	I-Denmark	B-Japan
1	H-India	-New Zealand	A-Japan	H-India	D-New Zealand	A-Brazil

Directions (6-8):

6) Answer: A

7) Answer: C

8) Answer: D

A@B (18m) → A is 15m north of B → 18-3=15

A#B (13m) → A is 8m south of B → 13-5=8

A$B (10m) → A is 17m east of B → 10+7=17

A%B (12m) → A is 16m west of B → 12+4=16

A&BC → A is middle of B and C

From the above condition, we have subtracted 5, 3 from the new sequence of questions and we have added 7, 4 to the new sequence of the question.
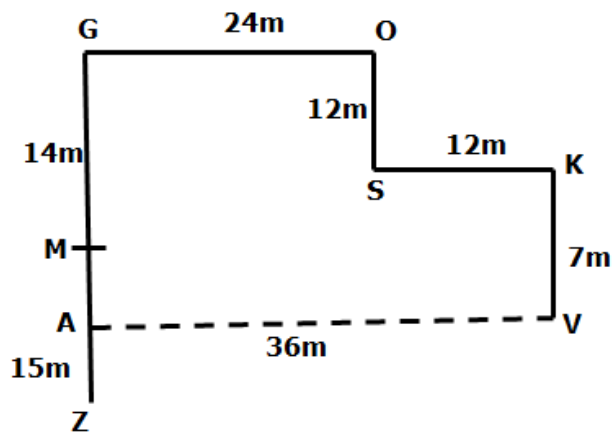
Directions (9-13):

9) Answer: A

10) Answer: B

11) Answer: E

12) Answer: A

13) Answer: E

Final Arrangement
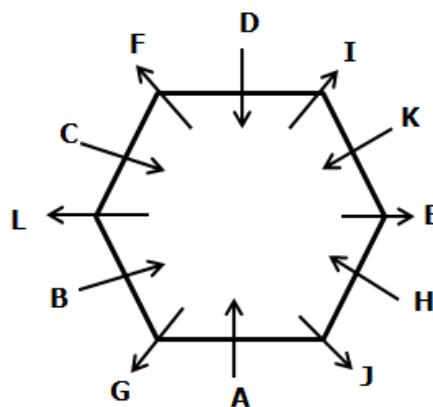
We have,

- One person sits between H and A who sits on the middle of the sides of the table.
- H sits fourth to the right of B.
- One person sits between B and C.
- C sits second to the right of D.

From the above condition, there are two possibilities.
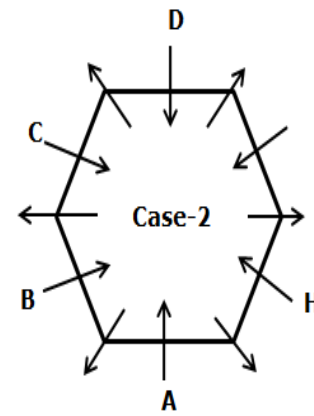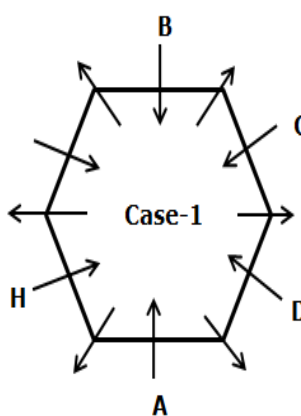
Again we have,

- K sits to the immediate right of I, who faces outside.
- Two persons sit between K and J.

From the above condition, Case-1 is eliminated. Case-2 has one more possibility.
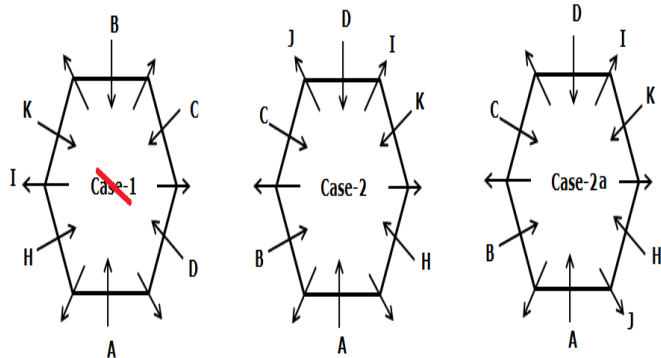
Again we have,

- The number of persons sitting between H and K is the same as the number of persons sitting between G and L, when counted from the right of both H and G.
- Both L and D are not immediate neighbours.
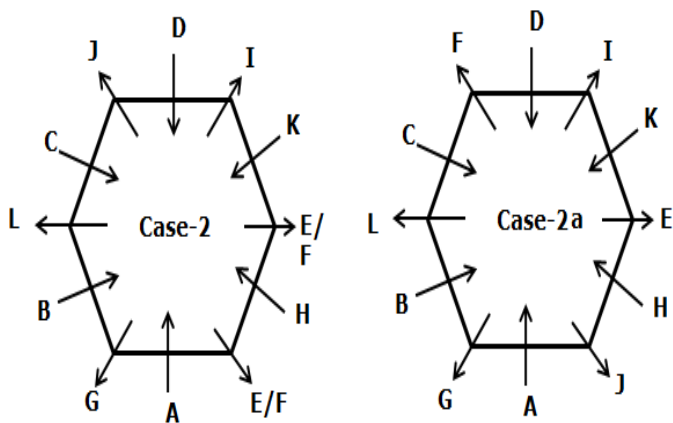
Again we have,

- The number of persons sitting between F and K is one less than the number of persons sitting between F and G when counted from the right of both G and K.
- F does not sit adjacent to A.

From the above condition, case-2 is eliminated. Case-2a shows the final arrangement.
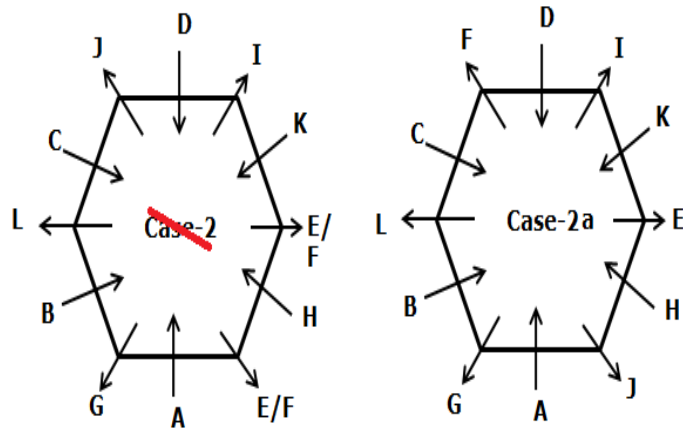
Directions (14-16):

14) Answer: B

I) B<L (B=U≤S<L) → True

II) M>U (M>O≥L>S≥U) → True

III) G≤O (G≤B=U≤S<L≤O) → False

15) Answer: C

I) G>E (G>I>U≥M=E) → True

II) P≥M (P=L≥G>I>U≥M) → False

III) Z≤U (U<I<G≤L=P≤Z) → False

16) Answer: E

I) V≥O (V=M≥G≥Y=O) → True

II) N>Q (N≤V=M>Q) → False

III) Y≤M (Y≤G≤M) → True

Directions (17-21):

17) Answer: B

18) Answer: B

19) Answer: C (All the persons ages are even number except option c)

20) Answer: E

21) Answer: B

Final Arrangement

B	E	A	D	G	F	C
32	24	37	28	18	36	1980
1990	1998	1985	1994	2004	1986	42
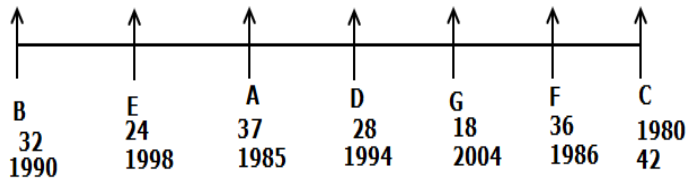
We have,

- F's age is 36.
- F sits third to the right of the one who is one year elder than F but none of them sits at any of the ends of the row.
- E sits to the left of the one who was born in 1985.
- E's age is equal to the sum of the digits of the F's born year.

From the above condition, there are three possibilities.
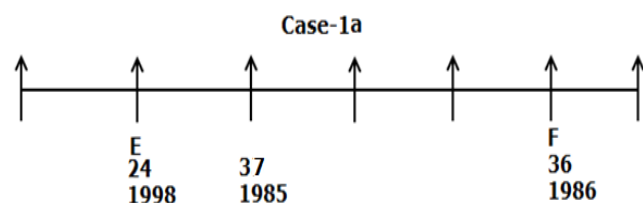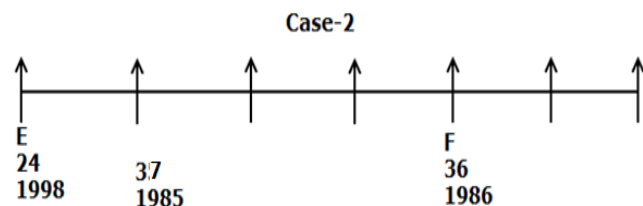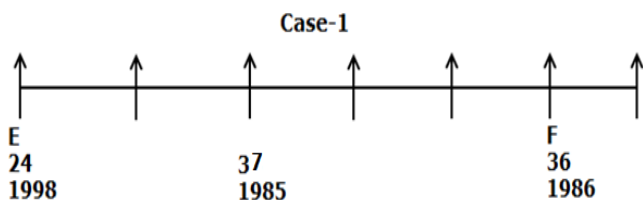
Again we have,

- Only two persons sit between E and G.

- The number of persons sitting between E and G is the same as the number of persons sitting between F and A.
- The number of persons sitting to the left of A is the same as the number of persons sitting to the right of the one whose age is half of the age of F.
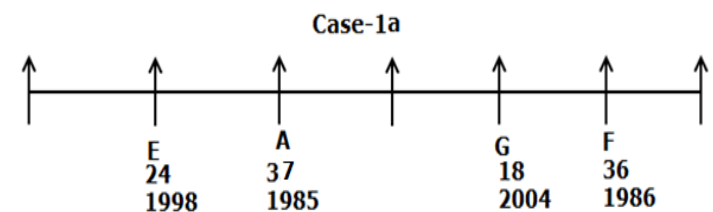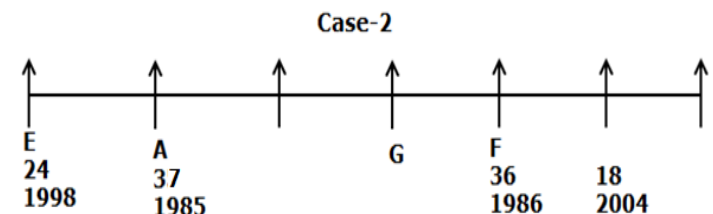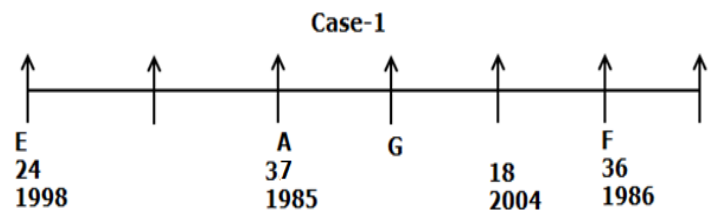
Again we have,

- B is an immediate neighbor of the one whose age is six years elder than G.
- The one who was born in 1990 sits third to the left of the one who was born in 1994.
- The difference between the ages of B and C is the same as the difference between the ages of D and G.
- G is younger than D.
- C is elder than F.

From the above condition, case-1 and case-2 are eliminated. Case-1a shows the final arrangement.

Case-1 (crossed out)

| E 24 1998 | | A 37 1985 | G 32 1990 | 18 2004 | F 36 1986 | 28 1994 |

Case-2 (crossed out)

| E 24 1998 | A 37 1985 | | G 32 1990 | F 36 1986 | 18 2004 | 28 1994 |

Case-1a

| B 32 1990 | E 24 1998 | A 37 1985 | D 28 1994 | G 18 2004 | F 36 1986 | C 1980 42 |
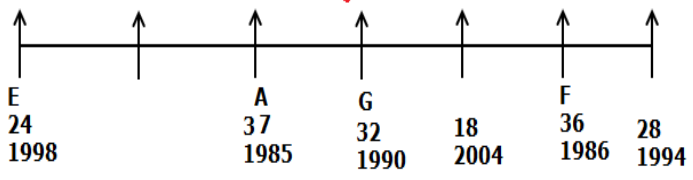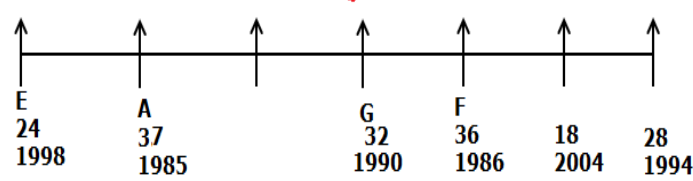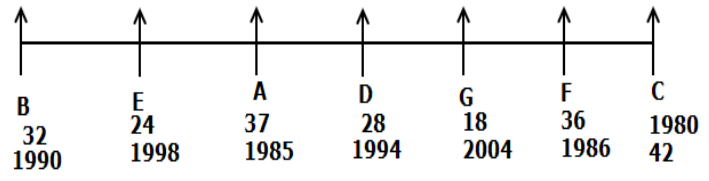
Directions (22-24):

22) Answer: E

23) Answer: C

24) Answer: D

H(+) ═══ M(-)   X
                        │
                        ▼
R(+)═══ V(-) ── U(+) ═══ S(-)
     │
     ▼   N(+)── G
   K(-)

═══ Married
─── Siblings
(+) Male
(-) Female
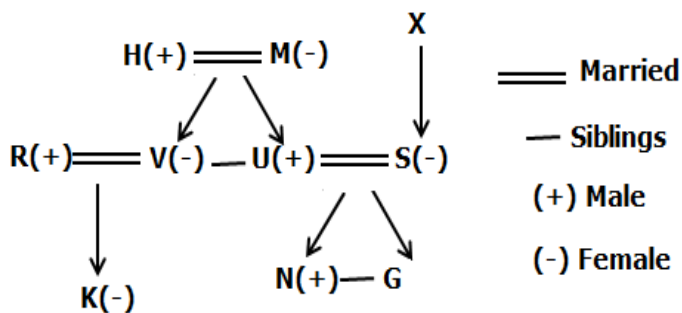
Directions (25-29):

25) Answer: D

26) **Answer: D** (All the boxes are kept on the same shelf except option d)

27) Answer: A

28) Answer: D

29) Answer: C

Final Arrangement

Shelves	Stack-1	Stack-2
8	T	
7	B	
6	J	
5	G	K
4	L	Y
3	C	D
2	A	E
1	F	W

We have,

- Box J is kept three shelves above box C, where both the boxes are kept on the same stack.
- Only one shelf is there between the boxes C and F.
- Box F is kept on an immediate southwest shelf of box E.

From the above condition, there are two possibilities.

Case-1		Case-2	
J	E	J	
F			
C		C	
			E
		F	

Again we have,

- Box T is kept two shelves above box J on the same stack.
- No boxes are kept above box T.

- Box G is kept immediately above box L, where both are kept on the same stack.
- Both the boxes E and L are kept on different stacks.
- Not more than two shelves are there below box C.

Case-1		Case-2	
T		T	
J	E	J	
F		G	
		L	
C		C	
G			E
L		F	

Again we have,

- Box B is kept two shelves above box G, where both are kept on the same stack.
- Box A is kept on an immediate north-west shelf of box W.

From the above condition, Case-1 gets eliminated

Case-1		Case-2	
T		T	
		B	
J	E	J	
F		G	
B		L	
C		C	
G		A	E
L		F	W

Again we have,

- Box L is kept on the same shelf with box Y.
- Box D is kept on an immediate northeast shelf of box A.
- Box K is kept on an adjacent shelf of box Y.

From the above condition, Case-2 shows the final arrangement.

Case-2	
T	
B	
J	
G	K
L	Y
C	D
A	E
F	W

Directions (30-33):

30) Answer: B

31) Answer: E

32) Answer: B

33) Answer: D

For Word Arrangement: The words are arranged in alphabetical order.

For Number Arrangement: The numbers are arranged in ascending order.

For step 1, step 2 Arrangement: The first word in alphabetical order and the lowest number are arranged from the left end then the vowel of the word is changed to special symbol. Then the second-lowest number and second word in

alphabetical order are arranged from the right end, so on..,

Vowels replacement with symbols: A=@ , E=%, I=#, O=$, U=&

Input: 78 Lunch Might 54 60 Bench Chart 19 25 Forty

Step I: 19 B%nch 78 Lunch Might 54 60 Chart 25 Forty

Step II: 19 B%nch 78 Lunch Might 54 60 Forty 25 Ch@rt

Step III: 19 B%nch 54 F$rty 78 Lunch Might 60 25 Ch@rt

Step IV: 19 B%nch 54 F$rty 78 Might 60 L&nch 25 Ch@rt

Step V: 19 B%nch 54 F$rty 78 M#ght 60 L&nch 25 Ch@rt

34) Answer: A

A course of action must either alleviate or lessen the problem that has been mentioned in the statement.

COA – I says take breaks, drink water, take a stroll → this will for sure help in managing the dizziness and improve the productivity so this is correct

COA – II says stiffness in the body which is not being talked about in the statement. It talks about dizziness and headache, so this can be eliminated

Hence, option (a) is the correct answer.

Directions (35-38):

35) Answer: C

36) Answer: A

37) Answer: D

38) Answer: D

Final Arrangement

Punjab	Haryana	Rajasthan
S(March), V(November), P(January)	Q(July), R(October)	T(May), U(September), W(June)

We have,

- The one who was born in November is from the same state of S.
- S is not from Haryana.
- The one who was born in October is only from the same state of Q.
- Both T and Q were born in the month which has an odd number of days.

From the above condition, there are four possibilities.

	Punjab	Haryana	Rajasthan
Case-1	S, (November)	Q, (October)	
Case-2		Q, (October)	S, (November)
Case-1a	S, (November)		Q, (October)
Case-2a	Q, (October)		S, (November)

Again we have,

- P and V are from the same state but from neither Rajasthan nor Haryana.
- P and R were born in the month which has an odd number of days.

From the above condition, case-2a gets eliminated.

	Punjab	Haryana	Rajasthan
Case-1	S, V(November), P	Q, (October)	
Case-2	V, P	Q, (October)	S, (November)
Case-1a	S, V(November), P		Q, (October)
~~Case-2a~~	Q, (October)		S, (November)

Again we have,

- T is from the same state of the one who was born in September. The one who was born in September is from the same state of neither S nor Q.
- R is from the same state of the one who was born in July.
- The one who was born in July is from neither Punjab nor Rajasthan.
- Neither W nor U was born in November.
- P is not born in May. The one who was born in June and the one who was born in May are from the same state.

From the above condition, Case-2 and Case-1a get eliminated.

	Punjab	Haryana	Rajasthan
Case-1	S, V(November), P	Q(July), R(October)	T(May), U(September), W(June)
~~Case-2~~	V(September), P, T,	Q(July), R(October)	S, (November)
~~Case-1a~~	S(June), V(November), P(May)	T(July), (September), R	Q, (October)

Again we have,

- S was not born in January.
- W was not born in September.

From the above condition, case-1 shows the final arrangement.

	Punjab	Haryana	Rajasthan
Case-1	S(March), V(November), P(January)	Q(July), R(October)	T(May), U(September), W(June)

Direction (39-41):

39) Answer: A
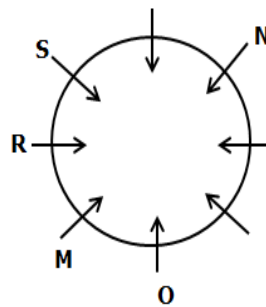
Statement 1

Statement 2

40) Answer: B

Statement 1

Case-1

Case-2
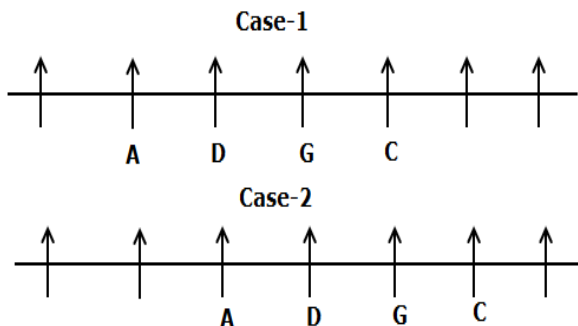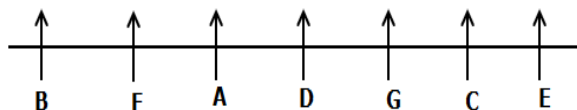
Statement 2

41) Answer: C

Statement 1

Deer	Af	Horse	Bh
Lion	It	Bat	Eg
Goose	Mh	Eagle	yv

Statement 2

Eagle	yv	Boar	ex
Monkey	hz	Horse	bh
Giraffe	nm	Lion	it

Directions (42-45):

42) Answer: B

43) Answer: B

44) Answer: E

45) Answer: D

Final Arrangement

Month and Year	Persons
2001- February	
March	Y
April	

May	E
June	
July	G
August	J
September	M
October	
November	Q
2002- February	I
March	
April	H
May	F
June	
July	R
August	
September	
October	P
November	S

We have,

- E was born in May of an odd-numbered year.

- Only three months were between E and M.

- Only one month was between E and G. Y was born before E but not in February.

From the above condition, there are three possibilities.

Month and Year	Case-1	Case-2	Case-1a
2001- February			
March	Y	G	
April		Y	Y

May	E	E	E
June			
July	G		G
August			
September	M	M	M
October			
November			
2002- February			
March			
April			
May			
June			
July			
August			
September			
October			
November			

Again we have,

- The number of persons born before Y is the same as the number of persons born after P.
- S was born in the month which has an even number of days but after P.
- The number of persons born between P and S is the same as between J and M.
- Q was born three months after J. Q and G were born in the same year.

From the above condition, case-1a gets eliminated.

Month and Year	Case-1	Case-2	Case-1a
2001- February			

March	Y	G	
April		Y	Y
May	E	E	E
June			
July	G	J	G
August	J		
September	M	M	M
October		Q	
November	Q		
2002- February			
March			
April			
May			
June			
July			
August			
September		P	P
October	P		
November	S	S	S

Again we have,

- F was born two months before R, both of them were born in the month which has an odd number of days.
- R and E were born in different months.

From the above condition, Case-2 has one more possibility.

Month and Year	Case-1	Case-2	Case-2a
2001- February			
March	Y	G	G
April		Y	Y

May	E	E	E
June			
July	G	J	J
August	J		
September	M	M	M
October		Q	Q
November	Q		
2002- February			
March			
April			
May	F	F	
June			
July	R	R	
August			F
September		P	P
October	P		R
November	S	S	S

July	G	J	J
August	J		
September	M	M	M
October		Q	Q
November	Q		
2002- February	I		
March		I	
April	H		
May	F	F	
June			
July	R	R	
August			F
September		P	P
October	P		R
November	S	S	S

Again we have,

- The number of persons born between P and F is the same as between R and I.
- H was born two months after I.

From the above condition, case-2 and case-2a get eliminated. Case-1 shows the final arrangement.

Month and Year	Case-1	~~Case-2~~	~~Case-2a~~
2001- February			
March	Y	G	G
April		Y	Y
May	E	E	E
June			

46) Answer: D

The main issue is that the rainwater gets wasted as it is not able to seep through the earth due to unplanned or improperly executed planning.

Now if the government will upgrade the (infrastructure → that includes buildings, roads and so many other aspects) it doesn't necessarily solve the problem mentioned. So, I is not a good course of action

But, II which talks about making plans for water harvesting can definitely do something to solve the issue.

So option (d) is the correct answer.

47) Answer: D

The airlines have already discounted the fares and as per the statement this step has been taken in order to increase the demand.

If they assume I, they would take the step in the statement

If they assume II, they would take the step in the statement

Hence, both I and II are good to be called as assumptions.

48) Answer: C

A → makes sense as the people dying while crossing the rail tracks has been mentioned

B → unmanageable flow within the stations will also lead to accidents for sure so this is also correct

C, D and E do not stand good as they don't mention accidents while crossing the tracks as given in the effect.

49) Answer: C

Yes it is true that the banks are going to face major challenges but the paragraph given above is specifically talking about the Technological and Human Resource challenges. Going by this fact, option (c) is the best option for us.

Options (a), (b) and (d) talk about various other dimensions and we cannot conclude those on the basis of the given paragraph so these can be eliminated.

50) Answer: E

The keywords here are →

Pandemic → Social distancing → safety → online shopping

Now, I talks about a behavioral shift of the consumers from offline to online shopping during the pandemic. This can be deduced from the given text.

Statement II talks about the e-commerce markets that have benefited from the pandemic. So, this also can be inferred from the passage.

III, however talks about work from home leading to an increase in the sale of consumer electronic products which is true as well but this cannot be inferred from the given paragraph as the statement doesn't clearly talk about an online demand for the same. So, this can be eliminated

Hence, only I and II follow. Option (e) being the correct answer.

IBPS RRB PO Mains 2021 Memory Based

Directions (1-5): Study the following information carefully and answer the below questions.(Covered in→IBPS Clerk mains 2021 mock-4(91-93),IBPS Clerk mains 2021 mock-9(122-124)

Bundle PDF: SBI Clerk & IBPS RRB PO Mains day-10(6-10), RRB Clerk & IBPS Clerk Mains day-7(11-15), RRB Clerk & IBPS Clerk Mains day-18(11-15), RRB Clerk & IBPS Clerk Mains day-34(1-5)

A certain number of persons are sitting in a linear row facing the north direction. Only four persons sit between F and the one who likes yellow. The one who likes Pink sits second to the right of F. Three persons sit between the one who likes Pink and K. The one who likes pink sits third from one of the ends. M sits fifth to the left of K. The number of persons sits between M and the one who likes Yellow is the same as the number of persons sits between the one who likes yellow and T. T sits second to the left of the one who likes Red. Only three persons sit between E and J. Only four persons sit between the one who likes Red and J. E sits second from the right end. Only two persons sit between E and the one who likes Gray.

1) How many persons sit in the linear row?

a) 20

b) 21

c) 22

d) 23

e) 24

2) Which of the following statement is true?

a) None of the statements is true

b) More than four persons sit to the right of the one who likes gray

c) The one who likes Pink and M are not immediate neighbors

d) Only three persons sit between K and T

e) The one who likes gray sits immediate right of J

3) Who among the following person sits at the extreme left end?

a) J

b) K

c) The one who sits third to the left of T

d) The one who sits immediate left of F

e) F

4) If F is related to Pink and T is related to Red in a certain way. Then who among the following is related to E?

a) Unknown person

b) The one who likes gray

c) T

d) The one who sits immediate left of K

e) M

5) How many persons sit to the right of the one who likes red?

a) 11

b) 10

c) 12

d) 13

e) 09

Direction (6-8) Study the following information carefully and answer the below questions(Covered in→ RRB PO Mains 2021 mock-3(29-30), RRB PO Mains 2021 mock-10(6-

A family consists of eight members and three married couples. No single parent has a child. P is the father of S. N is the only son of M. P is the brother-in-law of N. P does not have any siblings. N is the uncle of K. J is the mother of S's uncle. M is the maternal grandfather of X's son. T is the sister-in-law of X and daughter-in-law of J. K and T are ofthe same gender. N's sister has only one son.

6) Who among the following person is the sister of S?

a) P

b) N

c) T

d) K

e) No one

7) How is M related to J?

a) Nephew

b) Son

c) Husband

d) Brother

e) Brother-in-law

8) Which of the following statement is true?

a) S and N are of the same gender

b) K is not a child of T

c) J is the mother of X

d) N and T are married couples

e) All are true

Directions (9-13): Study the following information carefully and answer the below questions.(Covered in→RRB PO mains 2021 mock-9(5-9), IBPS PO mains 2021 mock-9(14-17), SBI PO mains 2021 mock-10(36-38), RRB Clerk mains 2021 mock-8(26-29),SBI Clerk mains 2021 mock-3(141-145)

Eight Events- A, B, C, D, E, F, G, and H are held in different cities- Gwalior, Jaipur, Lucknow, Kolkata, Nagpur, Chennai, Dispur, and Mumbai on different months- January, February, March, April, May, July, August, and November of the same year. All the information is not necessarily in the same order.

Event A was held in the month which has 30 days. Only two events are held between A and the event held in Kolkata. Event H is held immediately before the event held in Kolkata. As many Events held before A as after the event held in Chennai. Event of C was held in the month which has an even number of days. Event C was held two events after the event held in Mumbai. The number of events held between C

and the event held in Chennai is the same as the number of events held between A and the even held in Dispur. Event F was held immediately before G, neither of the events was held in Dispur. Event B was held immediately before the event held in Gwalior. At least one event is held after the event which held in Gwalior. Event E was held before the event held in Nagpur. No event was held between D and the event held in Lucknow.

9) Four of the five among the following are similar in such a way to form a group, which one of the following doesn't belong to the group?

a) B-Jaipur

b) F-Lucknow

c) A-Mumbai

d) Kolkata-April

e) Mumbai-Nagpur

10) If B is related to Gwalior and E is related to Nagpur in a certain way. Then who among the following is related to Mumbai?

a) The event which held in May

b) The event which held immediately before F

c) The event which held immediately after E

d) G

e) E

11) Which of the following statement is true?

a) No event is held after H

b) Event E was held in Kolkata

c) Only four events are held between A and C

d) Event G was held on April

e) All are true

12) Which of the following event was held immediately after the event held in Jaipur?

a) F

b) D

c) E

d) The event which held two events before C

e) The event which held immediately after G

13) How many events are held between F and the event held in Mumbai?

a) One

b) Five

c) Four

d) Three

e) Two

Directions (14-16): Study the following information carefully and answer the below questions(Covered in→RRB PO mains 2021 mock-10(9-10), RRB Clerk mains 2021 mock-3(22-24), RRB Clerk mains 2021 mock-6(36-37) Bundle PDF- SBI Clerk & IBPS RRB PO Mains day-3(11-15), RRB Clerk & IBPS Clerk mains day-30(16-18) (19-20), SBI PO & IPBS PO Mains day-47(11-12)

Jim and Joy are standing in point A. Jim started walking from Point A for 9m towards the west direction to reach point G then he takes right turn and walks for 11m to reach point H where he turns to the left and walks for 5m to reach point B

then he turns to the right and walks for 6m to reach point C where he again turns to the right and walks for 12m to reach point K.

Joy walks from Point A for 7m towards the south direction to reach point Y then she takes a left turn and walks for 6m to reach point M where she turns to the right and walks for 9m to reach point J then she turns to the right and walks for 8m to reach point D where she again turns to the right and walks for 3m to reach point F.

14) How far and what is the direction of F with respect to K?

a) 31m towards south

b) 32m towards north

c) 30m towards south

d) 33m towards south

e) 30m towards north

15) What is the direction of A with respect to D?

a) South-east

b) North-West

c) North-East

d) South

e) South-west

16) Four of the following are alike in a certain way. which of the following ones does not belong to the group?

a) CG

b) KA

c) FJ

D) GY

e) DM

Directions (17-21): Study the following information carefully and answer the below questions.(Covered in→RRB PO mains 2021 mock-8(10-13),IBPS PO mains 2021 mock-5(38-41) RRB Clerk mains 2021 mock-2(13-16), IBPS Clerk mains 2021 mock-7(94-98)
Bundle PDF: SBI Clerk & IBPS RRB PO Mains day-25(1-5), SBI Clerk & IBPS RRB PO Mains day-39(1-5),SBI PO & IPBS PO Mains day-12(6-10), RRB Clerk & IBPS Clerk Mains day-17(16-20), RRB Clerk & IBPS Clerk Mains day-47(6-10)

Eight persons-A, B, C, D, E, S, T, and V are working in a company with different grade positions such as Chief Financial officer(CFO), Executive Director(ED), General Manager(GM), Deputy General Manager(DGM), Manager, Assistant Manager(AM), PO and Clerk. They like different animals- Kangaroo, Iguana, Hyena, Puma, Giraffe, Fox, Lion, and Jaguar. All the information is not necessarily in the same order.

Note: The Chief financial officer(CFO) is the highest designated post where as the Clerk is the lowest designated post.

A is junior to the one who is Assistant Manager. Only one person holds a position between A and the one who likes Puma. As many persons junior to A as senior to S. Only one person holds a position between S and the one who likes Lion. C is immediately junior to the one who likes Fox.

Only three persons hold the positions between A and the one who likes Fox. The number of persons holds the positions between S and the one who likes Fox is the same as the number of persons holds the positions between C and B. No one holds the position between B and D. E is immediately junior to the one who likes the Giraffe. V is junior to E but senior to the one who likes Iguana. Less the two persons hold the position between T and the one who likes Jaguar. V does not like Kangaroo.

17)How many persons hold the positions between B and the one who likes Giraffe?

a) Three

b) Two

c) Four

d) Five

e)None

18) Who among the following person work as the PO?

a) The one who likes Hyena

b) The one who likes Puma

c) T

d) D

e) B

19)As many persons junior to Bas senior to _____?

a) D

b) S

c) The one who likes Fox

d) The one who works immediately senior to A

e) The one who likes Puma

20) Four of the five among the following are similar in such a way to form a group, which one of the following doesn't belong to the group?

a) S-Jaguar

b) C-Iguana

c) E-Hyena

d) B-Lion

e) T-Giraffe

21)Which of the following statement is true?

a) More than two persons are senior to D

b) A likes Puma

c) No one holds the position between S and D

d) C is the Manager

e) All the statements are true

Directions (22-24): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.
(Covered in Most number of Mock and Bundle PDF)

22) Statement

Only a few Colors are Paint

All Paints are Art

Some Arts are Picture

Conclusion

I. All Colors being paint is a possibility

II. No Picture is Paint

a) Only I follow

b) Either I or II follow

c) Only II follows

d) Both I and II follow

e) Neither I nor II follow

23) Statement

Only a few Portraits are sketch

All Sketches are Picture

No Picture is Canvas

Conclusion

I. Some Portraits being Picture is a possibility

II. No Sketch is Canvas

a) Only I follow

b) Either I or II follow

c) Only II follows

d) Both I and II follow

e) Neither I nor II follow

24) Statement

Only a few Drinks are Cool

All Cools are Hot

All Drinks are Flavour

Conclusion

I. Some Drinks are not Hot

II. All Flavours can never be Cool

a) Only I follow

b) Either I or II follow

c) Only II follows

d) Both I and II follow

e) Neither I nor II follow

Directions (25-29): Study the following information carefully and answer the below questions.(Covered in· IBPS Clerk mains 2021 mock-1(120-122), IBPS PO mains 2021 mock-8(11-13)

Bundle PDF- SBI Clerk & IBPS RRB PO Mains day-11(6-10),RRB Clerk & IBPS Clerk Mains day-25(1-5), SBI PO & IPBS PO Mains day-17(6-10), SBI PO & IPBS PO Mains day-32(6-10)

Eight persons- J, K,L, M, N, O, P, and Q are living in the four-storey building. They like different flowers- Sunflower, Lilly, Orchid, Tulip, Marigold, Daffodil, Crossandra, and Rose but not necessarily in the same order.

Note:

i. Each floor has two flats viz., flat X and flat Y. No two people live in the same flat.Flat X is exactly to the west of Flat Y.

ii. Flat X of floor 2 is immediately above flat X of Floor 1 whereas flat Y of floor 2 is immediately above flat Y of floor 1 and so on.

iii. The floors are numbered 1 to 4 from the bottom to top.

P lives on an even number floor. P lives immediately below the flat of the one who likes Lily. N lives west of the one who likes Rose. P does not like Rose. The one who likes Rose lives immediately above the flat of the one who likes Daffodil. Only one floor is between N and the one who likes Crossandra. The one who likes Crossandra lives immediately below J in different flats.The one who likes Crossandra lives three floors below the flat of K. K lives west of the one who likes Tulip. Q lives adjacent floor of the one

who likes Orchid. At least one floor is there above the floor of the one who likes Orchid. Q and K do not live in the same type of flat. Neither Q nor L likes Rose. L lives below the one who likes Sunflower. Only one floor is between the one who likes Marigold and M.

25) Who among the following person is living on floor 3 of Flat Y?

a) The one who likes Tulip

b) K

c) The one who lives on the same floor of L

d) The one who likes Rose

e) P

26) Which of the following statement is true?

a) N and M live on different floors

b) Q likes Tulip

c) K and N live in different types of flats

d) No one lives below J

e) L likes Crossandra

27) On which of the following floor and flat does M live?

a) Floor 2 Flat Y

b) Floor 3 Flat X

c) Floor 3 Flat Y

d) Floor 2 Flat X

e) Floor 1 Flat Y

28) Four of the five among the following are similar in such a way to form a group, which one of the following doesn't belong to the group?

a) K-Tulip

b) N-Rose

c) Lily- J

d) L-Marigold

e) P-Daffodil

29) Which of the following flower is liked by P?

a) Tulip

b) Orchid

c) Sunflower

d) Marigold

e) Crossandra

Direction (30-32): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question:(Covered in Most number of Mock and Bundle PDF)

30) Six persons- A, B, C, D, E, and F are sitting on the circular table facing the center but not necessarily in the same order. Who sits third to the right of F?

Statement I:A sits immediate left of F. Only one person sits between F and E. D sits immediate right of B.

Statement II: D sits second to the left of F. Only one person sits between F and E. B sits second to the right of C. A sits exactly between D and F.

a) Only Statement I alone is sufficient to answer the question

b) Only Statement II alone is sufficient to answer the question

c) Either statement I or statement II is sufficient to answer the question

d) Neither statement I nor statement II is sufficient to answer the question

e) Both statement I and statement II together are sufficient to answer the question

31) Six persons- L, M, N, O, P, and Q are sitting in a linear row facing the north direction but not necessarily in the same order. Who among the following person sits second from the left end?

Statement I:P sits second to the left of the one who sits third to the right of M. Only two persons sit between P and Q. Q does not sit at the end of the row.

Statement II:P sits third to the right of Q. Only three persons sit between Q and M. M does not sit second from the right end.

a) Only Statement I alone is sufficient to answer the question

b) Only Statement II alone is sufficient to answer the question

c) Either statement I or statement II is sufficient to answer the question

d) Neither statement I nor statement II is sufficient to answer the question

e) both statement I and statement II together are sufficient to answer the question

32)What is the code for "Piece tone hymn" in the given language?

Statement I: In a code language, "Piece rap tone folk" is coded as "ad vn mt lq", "Rock rap folk

music" is coded as " ct mt lq sm", "Piece tone jazz sing" is coded as "ad vn jt ni".

Statement II: In a code language, "Rock melody music sing" is coded as "ct it sm ni", "Piece sing soul hymn" is coded as " ad ni uv qj", "Rock tone tune hymn" is coded as "ct vn zm qj"

a) Only Statement I alone is sufficient to answer the question

b) Only Statement II alone is sufficient to answer the question

c) Either statement I or statement II is sufficient to answer the question

d) Neither statement I nor statement II is sufficient to answer the question

e) Both statement I and statement II together are sufficient to answer the question

33-35)(Covered in Most number of Mock and Bundle PDF)

33) If "1" is added to the odd digits and "2" is subtracted from the even digits of the given numbers then add all the digits within the number thus formed, then which of the following number yields the resultant as the second-highest?

a) 25863745

b) 53864812

c) 68453617

d) 18367824

e) 57836182

34) If the vowels of the following words are arranged first followed by the consonants as per

the alphabetical order and the vowels are changed to the next letter and the consonants are changed to the previous letter in the alphabetical series, then which will be the fourth letter from the right end of each newly formed word in the same order?

I. FAMOUS

II. ULTIMATE

III. UNIFORM

a) NKL

b) PVE

c) EKL

d) VKE

e) ELE

35) If the fourth letter from the right end of each word is taken to form a meaningful word, then which of the following can't form a meaningful word?

a) Agenda, Beauty, Budget, Eighth

b) Handed, Branch, Debate, Taking

c) Either, Dealer, Closed, Tagging

d) Corner, Create, Lawyer, Riding

e) Silver, Submit, Vision, Winter

36) **Statement:** At an enormous research cost, a leading chemical company has developed a manufacturing process for converting wood fibers into a plastic. According to the company, this new plastic can be used for, among other things, the hulls of small sailboats. But what does the company think sailboat hulls used to be made of? Surely the mania for high technology can scarcely go further than this.

The author's conclusion of the manufacturing process described in the statement is based primarily on the fact that?

A.plastic is unlikely to be durable enough for high-quality sailboat hulls

B.The research costs of developing the process outweigh any savings possible from the use of the plastic

C.A small sailboat is not normally regarded as a high-tech product

D.Hulls for small sailboats can be made from wood without converting it into plastic

E.None of the above

Directions (37-39): Study the following information carefully and answer the question given below:36-40)(Covered in Most number of Mock and Bundle PDF)

In one experiment in a study, 169 college students (65 per cent female, 88 per cent white) read a mock newspaper article describing a fictional mass shooting by an 18-year-old male youth who was described as an avid fan of violent video games. Half of the participants read an article featuring a small mugs hot of a white shooter while the other half saw a mugs hot of an African-American shooter.

In their responses to a questionnaire, participants who read the article with the photo of a white shooter were significantly more likely to blame video games as a factor in causing the

teen to commit the school shooting than participants who saw an African-American shooter.

According to the study, participants who did not play video games also were more likely to blame violent video games for school shootings

37) Which of the following can be *inferred* from the facts given in the paragraph above?

a) The people who don't play video games will always vote against the ones playing them

b) The debate over video games promoting violence has yet another set of supporters this time

c) Video games are essential for developing the intellect of an individual

d) The participants of the survey were well acquainted with all types of video games

e) The results of the experiment were biased against the non-players

38) What can be a probable *Course Of Action* so that the people stop blaming just the white shooter in video games?

a) Video games showcasing white shooters should be banned

b) Video game makers should promote the African-Amercian shooters to share the blame

c) Parents should train their children in terms of being able to choose what is morally wrong as it is not just the games that are responsible

d) Schools should rusticate the students bringing guns to the schools

e) None of the above

39) Which of the following can be *assumed* about the behavior of the participants of the survey?

a) The participants have personified the actual 18-year old shooter with the poster on their respective articles

b) The participants who saw the mugs hot of the African-American shooter were biased

c) The participants who did not play games did not know much about it

d) All the participants read the article with 100% attention

e) Both (c) and (d)

40) Statement: Indian carriers have announced a fresh slew of discounted ticket fares to bolster demand in the lean travel season.

Assumptions:

I) Indians tend to book flights when they find good deals and huge discounts

II) Discounted tickets will urge the people to plan their travels

a) None can be assumed

b) Only I can be assumed

c) Either I or II can be assumed

d) Both I and II can be assumed

e) Only II can be assumed

Answer Key with Explanation

Directions (1-5):

We have,

- Only four persons sit between F and the one who likes yellow.
- The one who likes Pink sits second to the right of F.

From the above condition, there are two possibilities.

Again we have,

- Three persons sit between the one who likes Pink and K.
- The one who likes pink sits third from one of the ends.
- M sits fifth to the left of K.

Again we have,

- The number of persons sit between M and the one who likes Yellow is the same as the number of persons sit between the one who likes yellow and T.
- T sits second to the left of the one who likes Red.

Again we have,

- Only three persons sit between E and J.
- Only four persons sit between the one who likes Red and J.
- E sits second from the right end.

- Only two persons sit between E and the one who likesGray.

From the above condition, case2 gets eliminated. Case1 shows the final arrangement.
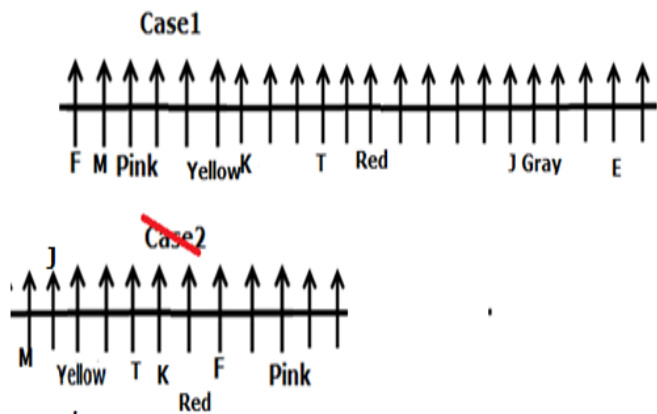
1) Answer: C

2) Answer: E

3) Answer: E

4) Answer: A

5) Answer: B

Directions (6-8) :
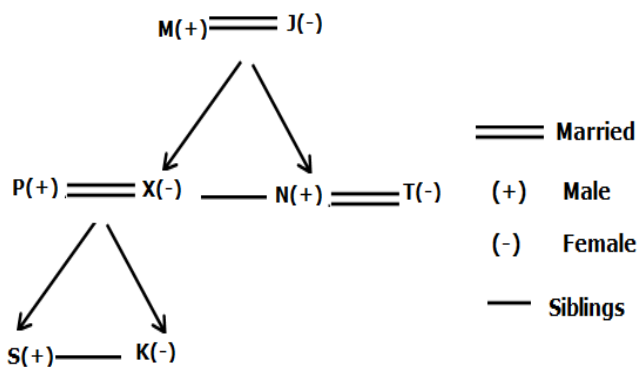
6) Answer: D

7) Answer: C

8) Answer: E

Directions (9-13):

9) Answer: D

10) Answer: A

11) Answer: B

12) Answer: E

13) Answer: D

Final Arrangement

Months	Events	City
January	B	Dispur
February	F	Gwalior
March	G	Jaipur
April	A	Lucknow
May	D	Chennai
July	H	Mumbai
August	E	Kolkata
November	C	Nagpur

Common Explanation

We have,

- Event of A was held in the month which has 30 days.
- Only two events are held between A and the event held in Kolkata.
- Event H was held immediately before the event held in Kolkata.

From the above condition, there are two possibilities.

	Case1		Case2	
Months	Events	City	Events	City
January				
February				
March				
April	A		H	
May				Kolkata
July	H			

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August		Kolkata		
November			A	

Again we have,

- As many Events held before A as after the event held in Chennai.
- Event of C was held in the month which has an even number of days.
- Event C was held two events after the event held in Mumbai.

From the above condition, case2 gets eliminated.

	Case1		Case2	
Months	Events	City	Events	City
January				Chennai
February				
March				
April	A		H	
May		Chennai		Kolkata
July	H	Mumbai		
August		Kolkata		
November	C		A	

Again we have,

- The number of events held between C and the event held in Chennai is the same as the number of events held between A and the even held in Dispur.
- Event F was held immediately before G, neither of the events was held in Dispur.

- Event B was held immediately before the event held in Gwalior. At least one event is held after the event which held in Gwalior.

Months	Events	City
January	B	Dispur
February	F	Gwalior
March	G	
April	A	
May		Chennai
July	H	Mumbai
August		Kolkata
November	C	

Again we have,

- Event E was held before the event held in Nagpur.
- No event was held between D and the event held in Lucknow.

Months	Events	City
January	B	Dispur
February	F	Gwalior
March	G	Jaipur
April	A	Lucknow
May	D	Chennai
July	H	Mumbai
August	E	Kolkata
November	C	Nagpur

Directions (14-16):
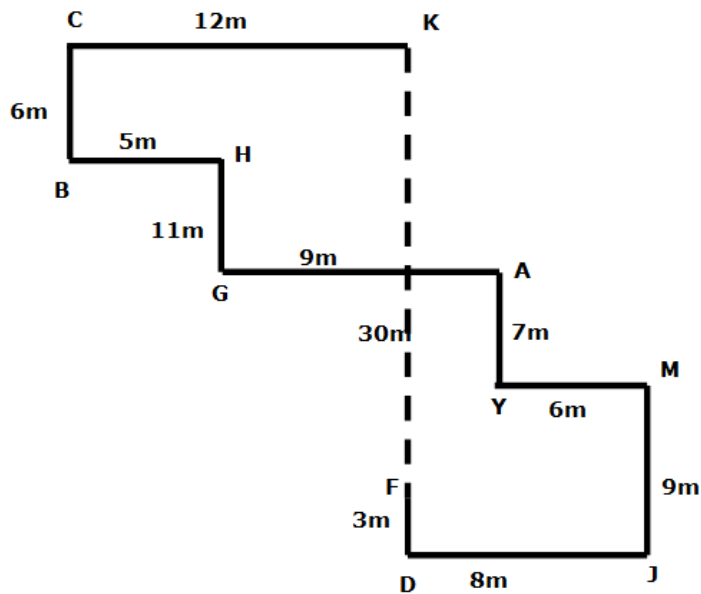
14) Answer: C

15) Answer: C

16) Answer: E

Directions (17-21):

Positions	Person	Animals
CFO	S	Kangaroo
ED	B	Jaguar
GM	D	Lion
DGM	T	Fox
Manager	C	Giraffe
AM	E	Puma
PO	V	Hyena
Clerk	A	Iguana

We have,

- A is junior to the one who is Assistant Manager.
- Only one person holds a position between A and the one who likes Puma.

From the above condition, there are two possibilities.

Positions	Case1		Case2	
	Person	Animals	Person	Animals
CFO				
ED				
GM				
DGM				
Manager		Puma		
AM				Puma
PO	A			
Clerk			A	

Again we have,

- As many persons junior to A as senior to S.
- Only one person holds a position between S and the one who likes Lion.
- C is immediately junior to the one who likes Fox.
- Only three persons hold the positions between A and the one who likes Fox.

Positions	Case1		Case2	
	Person	Animals	Person	Animals
CFO			S	
ED	S			
GM		Fox		Lion
DGM	C	Lion		Fox
Manager		Puma	C	
AM				Puma
PO	A			
Clerk			A	

- The number of persons holds the positions between S and the one who likes Fox is the same as the number of persons holds positions between C and B.

- No one holds the position between B and D.
- E is immediately junior to the one who likes the Giraffe.
- V is junior to E but senior to the one who likes Iguana.

From the above condition, case1 gets eliminated.

Positions	Case1 Person	Animals	Case2 Person	Animals
CFO			S	
ED	S		B	
GM		Fox	D	Lion
DGM	C	Lion		Fox
Manager	B	Puma	C	Giraffe
AM	D		E	Puma
PO	A		V	
Clerk			A	Iguana

Again we have,

- Less the two persons hold the position between T and the one who likes Jaguar.
- V does not like Kangaroo.

From the above condition, case2 shows the final arrangement.

	Case2	
Positions	Person	Animals
CFO	S	Kangaroo
ED	B	Jaguar
GM	D	Lion
DGM	T	Fox
Manager	C	Giraffe
AM	E	Puma
PO	V	Hyena
Clerk	A	Iguana

17) Answer: B

18) Answer: A

19) Answer: D

20) Answer: B

21) Answer: D

Directions (22-24):

22) Answer: E
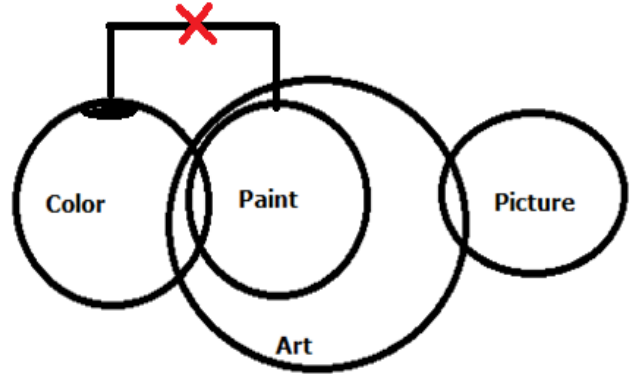
Neither I nor II follow

23) Answer: C
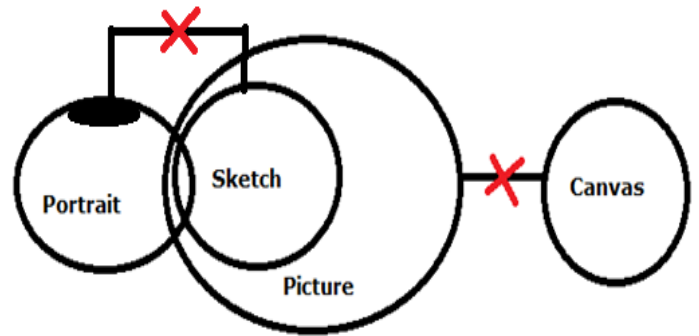
Only II follows

24) Answer: C
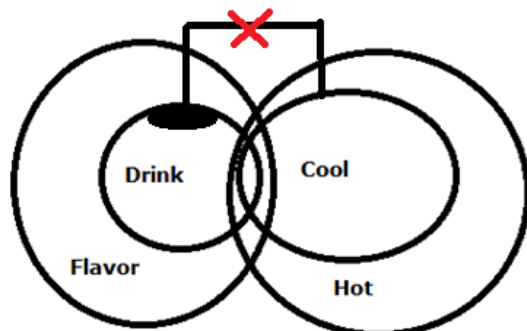
Only II follows

Directions (25-29):

Floor	Flat X	Flat Y
4	K, Sunflower	O, Tulip
3	N, Lily	M, Rose
2	P, Orchid	J, Daffodil
1	L, Crossandra	Q, Marigold

We have,

- P lives on an even number floor.
- P lives immediately below the flat of the one who likes Lily.
- N lives west of the one who likes Rose.
- P does not like Rose.
- The one who likes Rose lives immediately above the flat of the one who likes Daffodil.

From the above condition, there are two possibilities.

	Case1		Case2		Case1a	
Floor	Flat X	Flat Y	Flat X	Flat Y	Flat X	Flat Y
4			N	Rose	N	Rose
3	N, Lily	Rose		Lily	Lily	Daffodil
2	P	Daffodil		P	P	
1						

	Case1		Case1a	
Floor	Flat X	Flat Y	Flat X	Flat Y
4	K	Tulip	N	Rose
3	N, Lily	Rose	Lily	Daffodil
2	P	J, Daffodil	P	
1	Crossandra			

Again we have,

- Q lives adjacent floor of the one who likes Orchid.
- At least one floor is above the floor of the one who likes Orchid.
- Q and K do not live in the same type of flat.
- Neither Q nor L likes Rose.
- L lives below the one who likes Sunflower.

Only one floor is between the one who likes Marigold and M.

	Case1	
Floor	Flat X	Flat Y
4	K, Sunflower	O, Tulip
3	N, Lily	M, Rose
2	P, Orchid	J, Daffodil
1	L, Crossandra	Q, Marigold

25) Answer: D

26) Answer: E

27) Answer: C

28) Answer: C

29) Answer: B

Direction (30-32):

30) Answer: B

From statement1, we can't get the answer
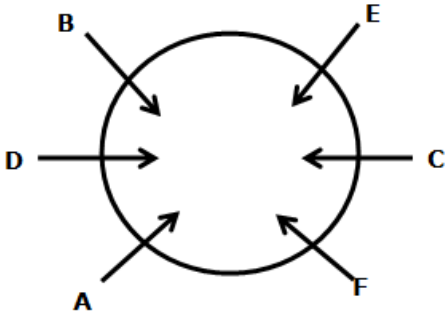
Statement 2

From statement2, we can get the answer

31) Answer: C

Statement 1

From statement1, we can get the answer

Statement 2

From the statement, we can get the answer.

32) Answer: E

Statement 1

Word	Code
Piece/Tone	Ad/vn

Statement 2

Words	Codes
Piece/soul	Ad/uv

Hymn	Qj
Tone/Tune	Vn/zm

From both statement 1 and statement 2

Words	Codes
Piece	Ad
Tone	Vn
Hymn	Qj

33) Answer: D

a) 25863745→06644826=36

b) 53864812→64642620=30

c) 68453617→46264428=36

d) 18367824→26448602=**32**

e) 57836182→68644260=36

34) Answer: D

I. FAMOUS→AOUFMS→BP**V**ELR

II. ULTIMATE→AEIULMTT→BFJV**K**LSS

III. UNIFORM→IOUFMNR→JPV**E**LMQ

35) Answer: E

a) Agenda, Beauty, Budget, Eighth→eadg→Aged

b) Handed, Branch, Debate, Taking→nabk→Bank

c) Either, Dealer, Closed, Tagging→taog→Goat

d) Corner, Create, Lawyer, Riding→rewd→Drew

e) **Silver, Submit, Vision, Winter→Ibsn**

36) Answer: D

The author is trying to point out the redundancy of the so-called new invention/development.

Hulls are made of wood. The new invention involves a method, which converts wood into some kind of plastic, which is then used to make hulls of ships. The new invention is basically lengthening and complicating the process. Thus, D is correct.

37) Answer: B

Out of all the given options, only option (b) reaches close to the idea of the study being mentioned in the paragraphs above.

Option (a) can be true but it cannot be inferred from the paragraph

Options (c) and (d) cannot be deduced from the context

Option (e) could be close had it been biased in favor of the non players and not against them.

38) Answer: C

Does option (a) solve or lessen the problem? No! As if not games then there could be other means too

Does option (b) solve or lessen the problem? Not at all; in fact it would aggravate the issue crying racism

Does option (d) solve the issue? Definitely not; as banning them would make them more aggressive

Option (c) may not completely solve the problem but at least lessen it a bit. So out of the given choices, (c) should be correct.

39) Answer: A

Option (a) if assumed will make us infer the facts given in the paragraph about the study that has been mentioned.

Other options if assumed won't resonate with the context of the passage.

Hence, option (a) is the correct answer

40) Answer: D

The airlines have already discounted the fares and as per the statement this step has been taken in order to increase the demand.

If they assume I, they would take the step in the statement

If they assume II, they would take the step in the statement

Hence, both I and II are good to be called as assumptions.

SBI PO Mains 2021 Memory Based

Directions (1-5): Study the following information carefully and answer the below questions.(Covered in 2019 and 2020 Mocks)

Six couples are sitting on two different circular tables. Persons P, Q, R, S, T and U are seated in table 1 and Persons A, B, C, D, E, and F are seated in table 2. All of them are facing towards the centre. The couples are not sitting at the same table.

T sits second to the left of B's spouse. One person sits between D and T's spouse. D's spouse sits to the immediate right of T. U sits

second to the right of D's spouse. One of the immediate neighbours of U is a female member. U's wife sits second to the left of E. The immediate neighbours of D are female members. Both S and E are married couples. Both U and E are of the same gender. The number of persons sitting between T and S is the same as the number of persons sitting between C and B, when counted from the left of both T and C. C is of the opposite gender of E and does not sit adjacent to E. Both C and B are of the same gender. Both B and E are not immediate neighbours. A is not the spouse of T, who is a male member. The number of persons sitting between A and C is one less than the number of persons sitting between R and P, when counted from the left of both A and R.The immediate neighbours of C are of the same gender but opposite to the gender of Q's spouse.

1) Who among the following person sits third to the left of B's spouse?

a) T

b) The one who sits to the immediate right of R

c) The one who sits to the immediate right of E's spouse

d) The one who sits second to the right of P

e) U

2) Which of the following statement(s) is/are true with respect to the final arrangement?

a) B is the wife of R

b) Q sits to the immediate left of S

c) D is the spouse of R

d) One person sits between A and B

e) All the statements are true

3) Four of the following five are alike in a certain way and hence form a group. Which of the following one does not belong to that group?

a) RP

b) SA

c) QD

d) ET

e) FB

4) Who among the following person is the spouse of D?

a) T

b) The one who sits second to the left of R

c) The one who sits to the immediate left of S

d) The one who sits to the immediate right of U

e) R

5) How many persons sit between Q's spouse and U's spouse, when counted from the right of Q's spouse?

a) One

b) Two

c) Three

d) Four

e) No one

Directions (6-8): Study the following information carefully and answer the below questions(Covered in most of the mains mocks and Bundle PDF)

A%B means A is 8m north of B

A@B means A is 6m east of B

A#B means A is 12m south of B

A$B means A is 9m west of B

Note: If two symbols are given together, then they denote the direction. For example, %$ means north-west, #@ means south-east and so on.

Statement 1: A@O; S@N; V$U; O#N; S%V; U%G

Statement 2: L$M; B$E; G@K; K#B; E#M

6) What is the distance between L and K?

a) 18m

b) 24m

c) 28m

d) 20m

e) 22m

7) What is the direction of V with respect to E?

a) %

b) %@

c) #@

d) %$

e) #$

8) If P is to the south of O and west of K, then which of the following option is sufficient to find the direction and distance of P with respect to G?

a) Either Statement 1 or Statement 2 is sufficient

b) Both statement 1 and statement 2 are sufficient

c) Only Statement 1 is sufficient

d) Only Statement 2 is sufficient

e) Neither Statement 1 nor Statement 2 is sufficient

Directions (9-13): Study the following information carefully and answer the below questions.(Covered in→RRB Clerk mains 2021 mock-4(21-24), RRB Clerk mains 2021 mock-10(24-27), IBPS Clerk mains 2021 mock-3(113-116),

Bundle PDF- SBI PO & IPBS PO Mains day-11(11-15),IBPS PO & SBI PO mains day-30(11-15), SBI Clerk & IBPS RRB PO Mains day-12(16-20)

Eight persons- L, M, N, O, P, Q, R, and S were born in eight different months of the same year, but not necessarily in the same order. Four of the months are March, July, October, and December. R was born two months before the one who was born in September. Only two persons were born between R and M, who was not born before May. The number of persons born before M is the same as the number of persons born after N, who was not born in May. The number of persons born between N and R is one more than the number of months between N and L. L was born two months before S, who was born in the adjacent month of R. The number of persons elder to P is the same as the number of persons younger to Q. Q is not elder to S. Atleast one person was born between S and P. No one was born in the month which has less than 30 days.

9) P was born in which of the following month?

a) January

b) March

c) February

d) May

e) June

10) Four of the following five are alike in a certain way and hence form a group. Which of the following one does not belong to that group?

a) N

b) P

c) The one who was born immediately after S

d) The one who was born immediately before M

e) O

11) Which of the following statement(s) is/are true with respect to the final arrangement?

a) S is younger than P

b) No one was born before N

c) Only one person was born between N and L

d) Q was born immediately after O

e) All the statements are true

12) How many persons were born before the one who was born immediately after R?

a) One

b) Two

c) Three

d) Four

e) Five

13) As many persons born before L as after____?

a) N

b) P

c) The one who was born in September

d) The one who was born in October

e) The one who was born immediately before R

14-18) Covered critical reasoning questions in the most number of mocks and bundle PDF

Directions (14): Study the following information carefully and answer the questions given below.

14) Effect: Three people on average are killed every day in the capital while crossing the railway tracks, according to the data released by the Delhi Police.

Probable Cause:

F. Most of the deaths occur because people have earplugs on, while crossing the tracks and are unable to hear the approaching train.

G. There is a lack of manned railway crossings which together lead to unmanageable commuters' flow within the stations.

H. Railroad accidents are always caused by railway and drivers of high speed train.

I. Most of these deaths are due to the collision of trains.

J. Most common causes for run–over deaths are attempting to alight from the compartment before the train stops fully.

a) Only A

b) Only B

c) Both A and B

d) All A, B and E

e) All A, B, C, D and E

15) **Statement:** Many professionals have been reporting that they feel dizzy because of long working hours and headaches as they work for long hours on the computers which is necessary for their jobs

Course of Action:

I)Small breaks of about 10 minutes or so can be taken every 2 hours to take a stroll, drink water etc in between

II) Neck and Shoulder exercises can help relieve the stiffness in the   body that is felt in the body due to long sitting hours

a) Only I follows

b) Either I or II follows

c) Both I and II follow

d) Only II follows

d) None follows

16) **Effect:** Top tier MNC companies plan to boost staff strength on expectation of a more stable and business friendly government after the election coupled with an improvement in the economic landscape.

Probable Causes:

I) India has a vast pool of people with necessary technical skills and specialized qualifications.

II) Upcoming elections and economic revival to help job scenario.

III) Companies are to hire more this year.

IV) Many organizations are hopeful that policies attracting investment will come after elections.

a) Only I

b) Only III and IV

c) Only IV

d) Only I and II

e) None of these

Directions (17): Study the following information carefully and answer the question given below:

The most obvious way to encourage energy efficiency, reduce automobile pollution and cut subsidies is to reduce the subsidy on diesel, particularly when the owners of luxury cars and SUVs are becoming unintended beneficiaries of the subsidy. The other obvious way is to subsidise – not just charge lower excise duties – the sale of buses. There can be other innovative ways of serving the same goal. Attractive prizes can be announced for the design of more energy-efficient, robust and comfortable passenger three-wheelers which are an important mode of public transport on rural roads as well as narrow city lanes.

17)Which of the following is an **assumption** which is implicit in the facts stated in the above paragraph?

a) There is a desire for promoting energy efficiency and cutting pollution level

b) Energy efficient automobiles are not available in the market

c) Government wants to replace cars with energy-efficient three-wheelers

d) Rural roads need to be refurbished

e) None of these

18) Statement: Any successful defence attack by ballistic missiles would need to be controlled by a large-scale computer system. A defence against attack by ballistic missiles, to be successful, would have to work on first use, and a full preliminary test would be impossible.

Conclusions:

I) A defence against attack by ballistic missiles cannot be assured of success the first time it is used

II) A defence against ballistic missile attack will not work successfully when it is first called on for that purpose

a) Only I follows

b) Either I or II follows

c) Both I and II follow

d) Only II follows

e) None follows

Directions (19-21): In these questions, certain symbols have been used to indicate relationships between elements as follows: (Not covered this exact data sufficiency model inequality but covered coded inequality in Mains Mocks and Bundle PDF)

"A @ B" means "A is greater than B"

"A % B" means "A is not greater than B"

"A # B" means "A is less than B"

"A &B" means "A is not less than B"

"A ^ B" means "A is neither greater than nor less than B"

19) Which of the following statement(s) is/are sufficient to make the conclusion K@N definitely true?

Statement 1: M@G^E%T

Statement 2: K&Q^B@F

Statement 3: B^S#N%T#O

a) Both I and III together are sufficient

b) Both II and III together are sufficient

c) Both I and II together are sufficient

d) All the statements together are sufficient

e) None of the statements is sufficient

20) Which of the following statement(s) is/are sufficient to make the conclusion U&Y definitely true?

Statement 1: T@U&V^S@H

Statement 2: G#R^B%S

Statement 3: R&Y@Z&M@Q

a) Both I and III together are sufficient

b) Both II and III together are sufficient

c) Both I and II together are sufficient

d) All the statements together are sufficient

e) None of the statements is sufficient

21) Which of the following statement(s) is/are sufficient to make the conclusion V#M definitely true?

Statement 1: E@Q&N^X

Statement 2: F^M@E&H@B

Statement 3: U%V%S#H

a) Both I and III together are sufficient

b) Both II and III together are sufficient

c) Both I and II together are sufficient

d) All the statements together are sufficient

e) None of the statements is sufficient

Directions (22-26): Study the following information carefully and answer the below questions.(Not covered this model but will cover this in upcoming mains mocks and bundle PDF)

A certain number of persons are sitting in a linear row from north to south and they are facing towards east. The distance between the adjacent persons from the north end is a consecutive multiple of '3' in meters. The distance between any adjacent persons is not more than 54m. The total length of the row is not more than 232m.

M sits 45m to the left of the one who likes Tea. The one who likes Tea sits fifth to the left of K, who likes Soda. The one who sits to the immediate left of M, sits three places away from the one who likes Chips. N sits fourth to the left of the one who likes Kheer, where none of them sits adjacent to M. Not more than three persons are sitting between the one who likes Kheer and the one who likes Chips. The number of persons sitting between M and the one who likes Kheer is two more than the number of persons sitting to the right of the one who likes Kheer. Only four persons are sitting between H and W, where none of them sits at the end of the row. Neither N nor M sits adjacent to W. W doesn't like Kheer. The number of persons sitting between K and W is one more than the number of persons sitting between the one who likes Tea and the one who likes Halwa.

22) What is the position of N with respect to the one who likes Halwa?

a) Immediate right

b) Second to the right

c) Fourth to the left

d) Third to the right

e) None of these

23) How many persons are sitting in the row?

a) Twelve

b) Nine

c) Fifteen

d) Eleven

e) None of these

24) Who among the following persons are sitting between M and the one who sits fourth to the right of N?

I. The one who sits to the immediate left of the one who likes Tea.

II. W

III. The one who likes Kheer.

a) Only III

b) Both II and III

c) Both I and II

d) All I, II, and III

e) None of these

25) Who among the following person sits to the immediate left of the one who likes Kheer?

a) The one who sits second to the right of W

b) The one who likes Tea

c) The one who sits third to the left of the one who likes Soda

d) Either A or C

e) None of these

26) Which of the following statement is/are not true with respect to the final arrangement?

I. The one who likes Halwa sits fourth from the left end.

II. Only one person sits between the one who likes Kheer and the one who likes Chips.

III. N sits 21m away from the one who likes Chips.

a) Both I and III

b) All I, II, and III

c) Only II

d) Only III

e) None of these

Directions (27-31): An alphabetic rearrangement machine rearranges a series of words into a final output following certain rules in each step. Study the following information carefully and answer the questions given below.

(Covered in· IBPS Clerk mains 2021 mock-18(108-111)

Input: Aerobic Certain Banking Crude Gravity Moral

Input: Aerobic Certain Banking Crude Gravity Moral

Step I: aesocid desuaio caolioh dsuee hsawiuz nosam

Step II: zdsnchd ddstzhn cznlhnh dsudd hszwhtz nnszm

Step III: zdsochd ddsuahn cznmhnh dsvdd hszxhtz nntzm

Step IV: zsoch suahn czm sv sxt tzm

Step V: zh sn cm sv st tm

Step V is the last and final step of the given input. Based on the rules followed, find the output for the input given below.

Input: Magical Sound Cover Before Mobile Price

27) Which of the following element is third from the right end in step III?

a) nndimd

b) cdhosd

c) tnunf

d) dnxds

e) None of these

28) Which of the following element is second from the left end in step II?

a) tntnd

b) dnwds

c) nnchmd

d) dnxds

e) None of these

29) Which of the following element is fourth from the left end in step IV?

a) tud

b) qsi

c) chos

d) nxs

e) None of these

30) How many letters are there in the alphabetical series between the two letters of the element which is second from the right end in step V?

a) Seven

b) Two

c) Three

d) Nine

e) None of these

31) Which of the following element is second from the left end in step I?

a) dowes

b) touoe

c) cegose

d) nocime

e) None of these

Directions (32-36): Study the following information carefully and answer the below questions.(Covered in→IBPS PO mains 2021 mock-5(17-20)

Bundle PDF- SBI PO & IPBS PO Mains day-12(1-5), SBI PO & IPBS PO Mains day-30(1-5), SBI PO & IPBS PO Mains day-40(6-10) ,SBI PO & IPBS PO Mains day-47(16-20),SBI Clerk & IBPS RRB PO Mains day-5(1-5)

A family of three generations consists of ten members- P, Q, R, S, T, U, V, W, X and Y are sitting in a linear row such that all of them are facing towards north, but not necessarily in the same order.

T sits fourth from the left end. Only two persons sit between T and T's father. The number of persons sitting to the left of T's father is one less than the number of persons sitting to the right of W's mother. W's mother is an immediate neighbour of X's father. Only two persons sit between X's father and X. Q is the mother of T and the sister-in-law of W's spouse. Q's spouse does not have any siblings. U's spouse sits third to the left of X's brother. Both X and X's brother are not immediate neighbours. R is the father-in-law of X's mother. The number of persons sitting to the left of R is the same as the number of persons sitting to the right of W's spouse. R sits to the immediate left of W. S is the mother of X's only brother and does not have any siblings. U's wife is the aunty of X, who is of the opposite gender to R. W is the son of R's spouse. P is the mother-in-law of U. Y is the only son of W's brother-in-law.

32) How many persons sit to the right of W's spouse?

a) Four

b) Three

c) No one

d) Two

e) One

33) How is Y related to the one who sits second to the right of T?

a) Daughter

b) Grandson

c) Granddaughter

d) Son

e) Can't be determined

34) Who among the following person sits third to the right of V's father?

a) The one who sits to the immediate left of Y's mother.

b) The one who sits second to the right of Y

c) W's spouse

d) R's Spouse

e) None of the above

35) Which of the following statement(s) is/are true with respect to the final arrangement?

a) P is the mother of S's spouse

b) Only two persons sit between U and W's spouse

c) Y is the cousin of V

d) No one sits between Q and V's sister

e) All the above statements are true

36) What is the position of P's son with respect to the one who sits to the immediate right of X?

a) Second to the left

b) Third to the right

c) Third to the left

d) Fourth to the right

e) Fourth to the left

Directions (37-39): Study the following information carefully and answer the below questions.(Not covered this model but will cover this in upcoming mains mocks and bundle PDF)

In a certain code language,

'Criminal Procedure Code Legislation' means 'ah vm pt sm'

'Civil Procedure Punishment Report' means 'qv rh vm **'

'Legislation ****** Committee Judicial' means 'sm fm qs rh'

'Penal Code Procedure Amendment' means 'gs km ** pt'

37) What does "pt" represent in the given code language?

a) Code

b) Procedure

c) Amendment

d) Legislation

e) Penal

38) What is the code for 'Penal Procedure' in the given code language?

a) gs vm

b) km pt

c) vm km

d) Either b or c

e) Either a or c

39) If "Civil Committee Punishment" is coded as "qv fm iq", then what does 'sm qs rh' represent in the given code language?

a) Criminal Code Report

b) Code Procedure Report

c) Punishment Procedure Judicial

d) Judicial Legislation Report

e) Judicial Punishment Report

Directions (40-44): Study the following information carefully and answer the below questions.(Not covered this exact model but covered the same logic in four parallel row arrangement in Mains Mocks and Bundle PDF)

There are three rows- Row1, Row2 and Row3 with different lengths. Row1 is 56m long, Row2 is 38m long and Row3 is 63m long. Row2 is to the north of Row3 and south of Row1. Six persons are sitting in each row. The adjacent persons in row1, row2 and row3 are sitting at an equal distance of 6m, 4m and 8m respectively from the left end. All the persons are facing towards the north direction. The position of the persons sitting at the left end in each row is the same.

Arrangement 1:

In arrangement 1, the persons are arranged only in Row1 and Row2.W sits 22m away from the right end. The distance between W and O is 4m.M sits 8m away from U.Q sits to the north of M.U does not sit to the left of M.The number of persons sitting to the left of Q is the same as the number of persons sitting to the right of R.The distance between R and Y is 4m more than the distance between X and J. The distance between J and M is not less than 5m. The number of persons sitting to the left of P is one more than the number of persons sitting to the right of I.The distance between R and I is less than the distance between M and U.

Arrangement 2:

Now some persons in the first two rows are shifted to row-3. The persons sitting to the right

of U in row-2 in arrangement 1 are arranged in alphabetical order from the right end in row-3 and the persons sitting to the left of Y in row-1 in arrangement 1 are arranged in the reverse alphabetical order from the left end in row-3.

40) Who among the following person sits second to the left the one who sits to the immediate left of O in Arrangement-2?
a) The one who sits to the immediate right of W
b) The one who sits to the immediate left of L
c) Q
d) I
e) R

41)Which among the following combination of persons sitting in row 3 ?
a) PLQOWJ
b) OWJYIR
c) PLQMXU
d) YIRPLQ
e) MXUYIR

42) How many persons sit between M and the one who sits to the immediate right of W in Arrangement-1?
a) Two
b) Three
c) Four
d) One
e)No one

43) What is the distance between P and R in Arrangement-1?

a) 8m

b) 24m

c) 12m

d) 16m

e) 18m

44) Which of the following statement(s) is/are true with respect to Arrangement-2?

a) Only one person sits to the left of W

b) O sits to the immediate right of W

c) Only one person sits between P and L

d) No one sits between J and X

e) All the statements are true

45) STATEMENT: In the city, over 75% of the people are living in slums and substandard houses, which is reflection of the housing and Urban Development policy of the government. Substandard houses are often in severe disrepair. Substandard housing isn't just housing that's unattractive or outdated, it's housing that poses a risk to the health, safety or physical well-being of occupants, neighbors, or visitors. Substandard housing increases risk of disease, crime, social isolation and poor mental health.

Course of Action

1. There should be a separate Department looking after housing and Urban Development.

2. The policies in regard to the urban housing should be reviewed.

3. The policies regarding housing should also be reviewed so that such problem could be avoided in rural areas.

A. Only 1 follows

B. Only 2 follows

C. Only 2 & 3 follow

D. None follows

E. All follow

Answer Key with Explanation

Directions (1-5):

1) Answer: C

2) Answer: C

3) Answer: B

4) Answer: E

5) Answer: A

Final Arrangement
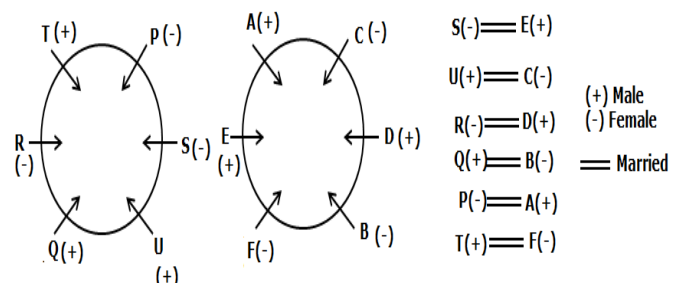
We have,

- T sits second to the left of B's spouse.
- One person sits between D and T's spouse.

From the above condition, there are two possibilities.

Case-1
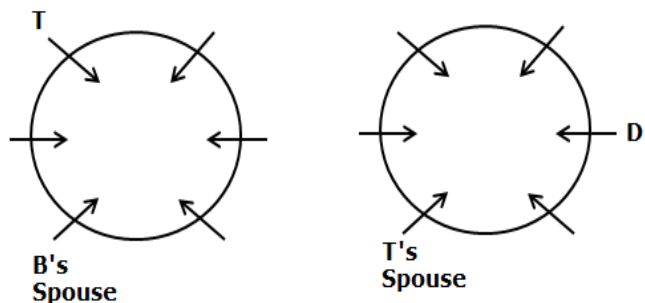
Case-2
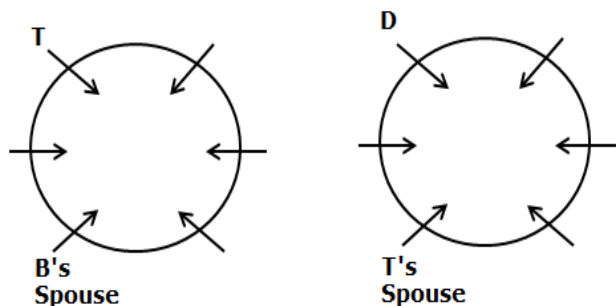
Again we have,

- D's spouse sits to the immediate right of T.
- U sits second to the right of D's spouse.
- One of the immediate neighbours of U is a female member.
- U's wife sits second to the left of E.
- The immediate neighbours of D are female members.
- Both S and E are married couples.
- Both U and E are of the same gender.

Case-1

Case-2

Again we have,

- The number of persons sitting between T and S is the same as the number of persons sitting between C and B, when counted from the left of both T and C.
- C is of the opposite gender of E and does not sit adjacent to E.
- Both C and B are of the same gender.
- Both B and E are not immediate neighbours.
- A is not the spouse of T, who is a male member.

Case-1

Case-2

Case-1

Case-2

(+) Male
(-) Female

══ Married

Again we have,

- The number of persons sitting between A and C is one less than the number of persons sitting between R and P, when counted from the left of both A and R.
- The immediate neighbours of C are of the same gender but opposite to the gender of Q's spouse.

From the above condition, case-2 gets eliminated. Case-1 shows the final arrangement.
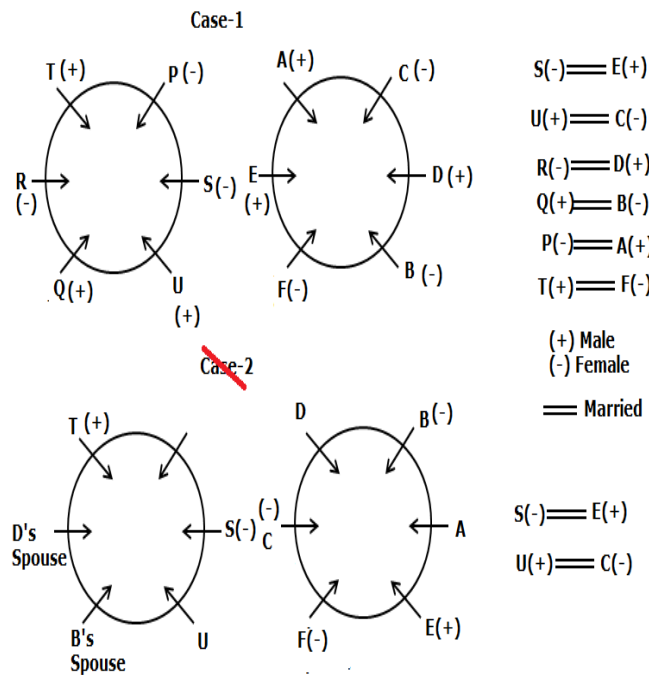
Directions (6-8):

6) Answer: B

7) Answer: E

8) Answer: B

Common Explanation
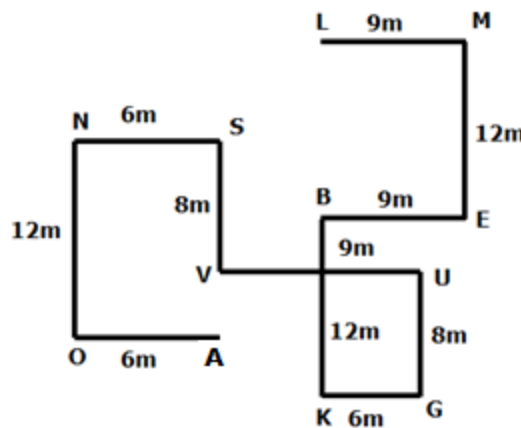
Directions (9-13):

9) Answer: B

10) Answer: E (All persons are born in the month which has an odd number of days except option e)

11) Answer: E

12) Answer: E

13) Answer: C

Final Arrangement

Month-Person
January- N
March-P
April-L
June-S
July- R
September-O
October-Q
December-M

We have,

- R was born two months before the one who was born in September.
- Only two persons were born between R and M, who was not born before May.

From the above condition, there are four possibilities.

Case-1	Case-2	Case-3	Case-4
		July- R	
	July- R	August	July- R
July- R	August	September	September
September	September	October-M	October
October	October- M	November	November-M
December-M	December-	December	December

Again we have,

- The number of persons born before M is the same as the number of persons born after N, who was not born in May.
- The number of persons born between N and R is one more than the number of months between N and L.
- L was born two months before S, who was born in the adjacent month of R.

From the above condition, Case 2, Case-3, and Case-4 get eliminated because there is not the possibility to place March month which is already mentioned in the statement.

Case-1	Case-2	Case-3	Case-4
N	March		April-L
/April-L	May-N		May-N
/April-L	June-L	July- R	June-S
June-S	July- R	August	July- R
July- R	August-S	September	September
September	September	October-M	October
October	October- M	November	November-M
December-M	December-	December	December

Again we have,

- The number of persons elder to P is the same as the number of persons younger to Q.
- Q is not elder to S.
- Atleast one person was born between S and P.
- No one was born in the month which has less than 30 days.

From the above condition, case-1 shows the final arrangement.

Case-1
January- N
March-P
April-L
June-S
July- R
September-O
October-Q
December-M

14) Answer: C

A → makes sense as the people dying while crossing the rail tracks has been mentioned

B → unmanageable flow within the stations will also lead to accidents for sure so this is also correct

C, D and E do not stand good as they don't mention accidents while crossing the tracks as given in the effect.

15) Answer: A

A course of action must either alleviate or lessen the problem that has been mentioned in the statement.

COA – I says take breaks, drink water, take a stroll → this will for sure help in managing the dizziness and improve the productivity so this is correct

COA – II says stiffness in the body which is not being talked about in the statement. It talks about dizziness and headache, so this can be eliminated

Hence, option (a) is the correct answer.

16) Answer: C

Most of the MNC's believe that a more investment friendly government will be formed and make policies that are favourable for business. More business will bring more jobs which in turn would increase the demand for skilled professionals and create jobs.

So, *because investment comes, business grows and that increases employment opportunities*

17) Answer: A

The best approach here is working backwards from the options!

(b) → If we suppose that energy efficient automobiles are not available in the market, what is the use of giving subsidies, prices etc for something that does not even exist? So, (b) is ruled out

(c) → Even if we suppose that the government wants to replace the cars, it will be a part of a bigger aim under which it will be done. Also, the paragraph talks about sale of buses so this eliminates (c) as well

(d) → Can't make a direct relation with what is being talked about so eliminated

(a)→When we suppose that the government is willing to promote energy-efficiency and cut pollution, we can easily relate the steps being given in the paragraph as a part of the government's execution plan. So, this stands to be the best assumption.

18) Answer: A

The statement says that *'the defence against the ballistic missiles, to be successful has to work on the first use, and a full preliminary test would be impossible'* which means that the *success the first time* the missile is fired *cannot be ensured*. The same idea is being carried forward by I.

II says that the defence won't work which means it is giving a surety and that is not happening in the statement, so this is ruled out.

Directions (19-21):

19) Answer: e

K≥Q=B=S<N → False

So none of the statements is sufficient

20) Answer: d

U≥V=S≥B=R≥Y

All the statements together are sufficient

21) Answer: b

M>E≥H>S≥V

Both II and III together are sufficient

Direction (22-26):

22. Answer: B

23. Answer: A

24. Answer: C

25. Answer: C

26. Answer: B

Common Explanation:

Case(1)

```
     H ──6m──►
     M ──9m──► Halwa
        ──12m──►
     N ──15m──► Chips
        ──18m──► Tea
     W ──21m──►
        ──24m──►
        ──27m──►
                Kheer
        ──30m──►
        ──33m──►
     K ──36m──► Soda
```
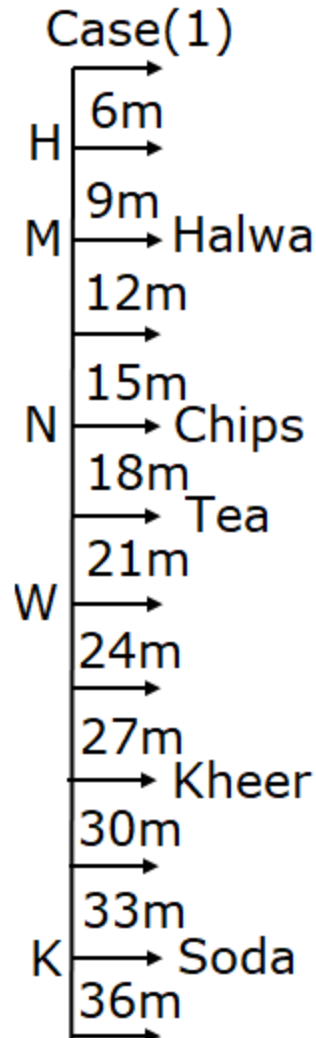
We have:

- M sits 45m to the left of the one who likes Tea.

- The one who likes Tea sits fifth to the left of K, who likes Soda.

- The one who sits to the immediate left of M, sits three places away from the one who likes Chips.

Since, only such possible combinations are (12, 15, 18)m, (21, 24)m, and 45m. That means, in case (1), M sits second to the left of the one who likes chips, who sits to the immediate left of the one who likes Tea, in case (2), the one who likes Chips sits fourth to the left of M, who sits second

to the left of the one who likes Tea. Case (2) is not valid since the total length of the row is not more than 232m.

Based on the above given information we have:

Case(1) / Case(2)
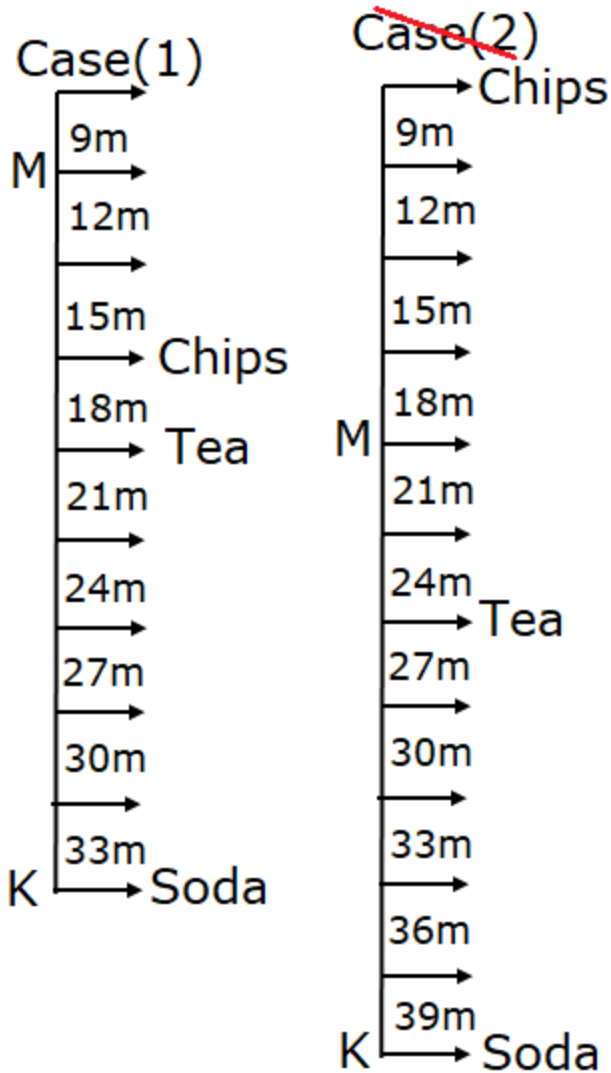
Again, we have:

- N sits fourth to the left of the one who likes Kheer, where none of them sits adjacent to M.
- Not more than three persons are sitting between the one who likes Kheer and the one who likes Chips.
- The number of persons sitting between M and the one who likes Kheer is two more

than the number of persons sitting to the right of the one who likes Kheer.

That means, in case (1) N likes Chips, and the one who likes Kheer sits second to the left of K.

- Only four persons are sitting between H and W, where none of them sits on the end of the row.
- Neither N nor M sits adjacent to W.
- W doesn't like Kheer.

That means, in case (1) H sits to the immediate left of M

- The number of persons sitting between K and W is one more than the number of persons sitting between the one who likes Tea and the one who likes Halwa.

That means, M likes Halwa.

Based on the above given information we have:

Case(1)

```
      6m
  H ──────►
      9m
  M ──────► Halwa
      12m
    ──────►
      15m
  N ──────► Chips
      18m
    ──────► Tea
      21m
  W ──────►
      24m
    ──────►
      27m
    ──────► Kheer
      30m
    ──────►
      33m
  K ──────► Soda
      36m
    ──────►
```
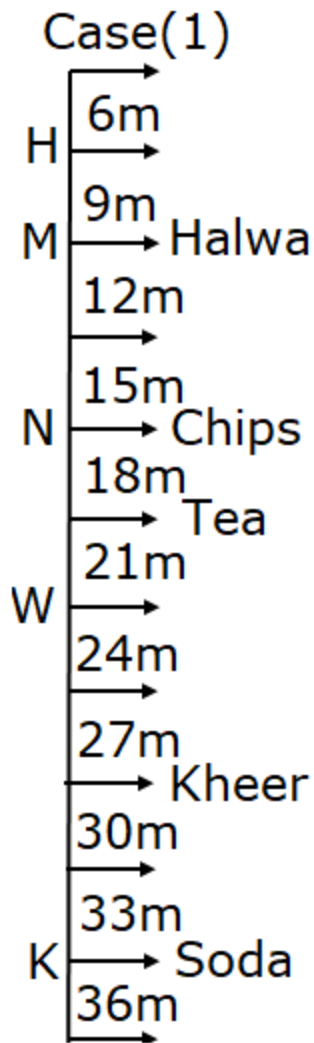
Direction (27-31):

27. Answer: B

28. Answer: A

29. Answer: C

30. Answer: C

31. Answer: B

Common Explanation:

We have:

Input: Aerobic Certain Banking Crude Gravity Moral

For step I: Change the consonant letters to its immediate next letter in the alphabetical series whereas no change in vowel.

Step I: aesocid desuaio caolioh dsuee hsawiuz nosam

For step II: Vowels are changed to its immediate preceding letter in the alphabetical series whereas no change in consonant.

Step II: zdsnchd ddstzhn cznlhnh dsudd hszwhtz nnszm

For step III: The middle letter changed to its immediate next letter in the alphabetical series.

Step III: zdsochd ddsuahn cznmhnh dsvdd hszxhtz nntzm

For step IV: All those letters which are appeared more than once are dropped.

Step IV: zsoch suahn czm sv sxt tzm

For step V: Only the first and the last letters are taken.

Step V: zh sn cm sv st tm

Based on the step by step rule followed we have following output.

Input: Magical Sound Cover Before Mobile Price

Step I: nahidam touoe dowes cegose nocime qside

Step II: nzhhdzm tntnd dnwds cdgnsd nnchmd qshdd

Step III: nzhidzm tnund dnxds cdhosd nndimd qsidd

Step IV: nhidm tud nxs chos im qsi

Step V: nm td ns cs im qi

Directions (32-36):

32) Answer: C

33) Answer: D

34) Answer: A

35) Answer: E

36) Answer: E

Final Arrangement

R   W   p   T   X   Q   U   Y   V   S

R(+) ══ P (−)

U(+) ══ Q(−) ─ W(+) ══ S(−)

T(−) ─ Y(+)   X(−) ─ V (+)

══ Married
─ Sibling
(+) Male
(−) Female
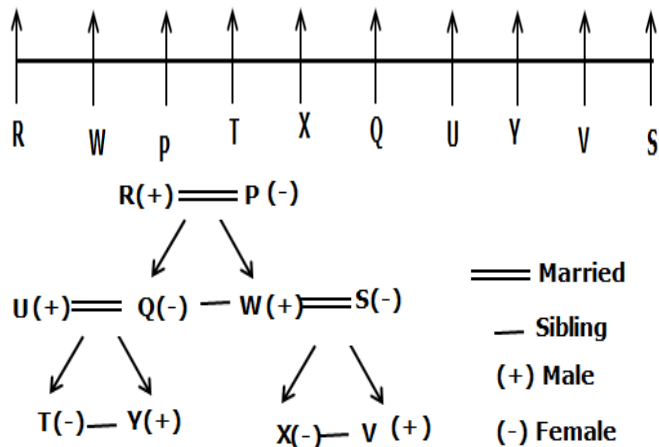
Common Explanation

We have,

- T sits fourth from the left end.
- Only two persons sit between T and T's father.
- The number of persons sitting to the left of T's father is one less than the number of persons sitting to the right of W's mother.

From the above condition, there are two possibilities.

Case-1

W's mother   T   T's father

Case-2

T's father   T   W's mother
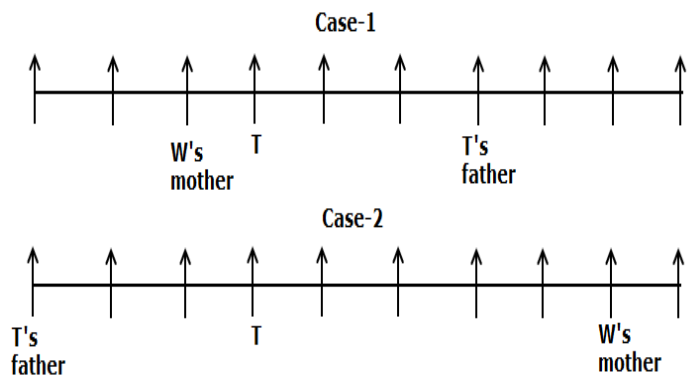
Again we have,

- W's mother is an immediate neighbour of X's father.

- Only two persons sit between X's father and X.
- Q is the mother of T and sister-in-law of W's spouse.
- Q's spouse does not have any siblings.

From the above condition, there are three possibilities.

Case-1

X's father   W's mother   T   X   T's father

Case-2

T's father   T   X   X's father   W's mother

Case-2a

T's father   T   X   W's mother   X's father

(+)
↓
X

(+) ══ Q(−) ─ W ══
↓
T
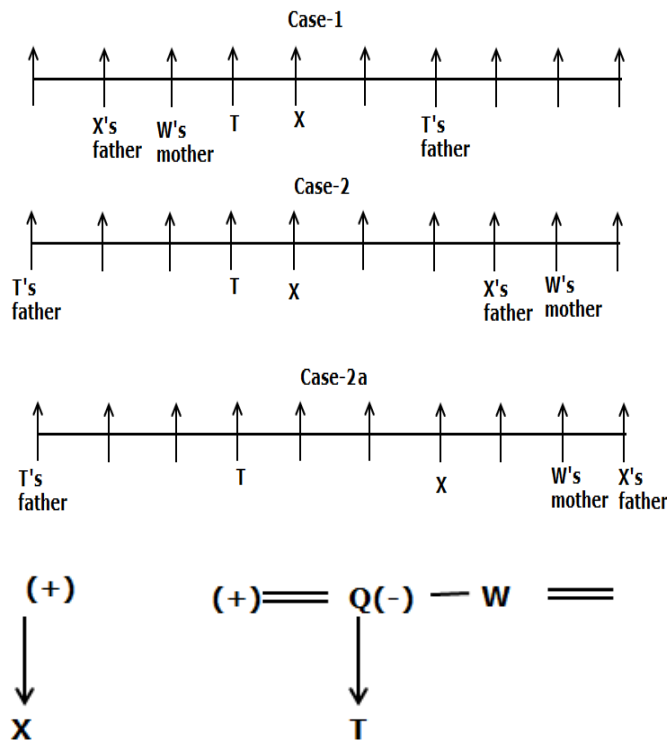
Again we have,

- U's spouse sits third to the left of X's brother.
- Both X and X's brother are not immediate neighbours.
- R is the father-in-law of X's mother.
- The number of persons sitting to the left of R is the same as the number of persons sitting to the right of W's spouse.
- R sits to the immediate left of W.
- S is the mother of X's only brother and does not have any siblings.

- U's wife is the aunty of X, who is of the opposite gender to R.
- W is the son of R's spouse.
- P is the mother-in-law of U.
- Y is the only son of W's brother-in-law.

From the above condition, Case-2 and Case-2a get eliminated. Case-1 shows the final arrangement.

Case-1

R W p T X Q U Y V S

Case-2

U T X Q W P X's brother

Case-2a

U Q T X's brother X P W

R(+) ══ P (−)
U(+) ══ Q(−) — W(+) ══ S(−)
T(−) — Y(+)   X(−) — V (+)

══ Married
— Sibling
(+) Male
(−) Female
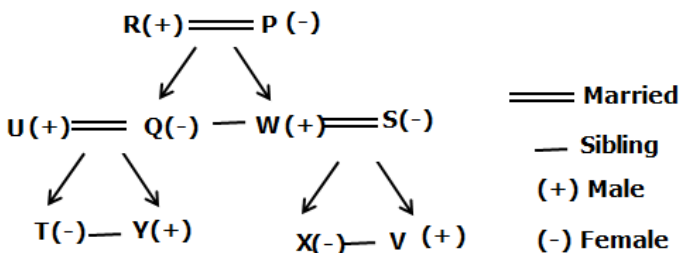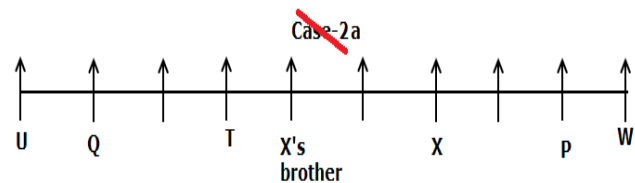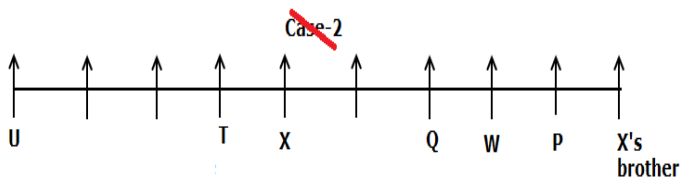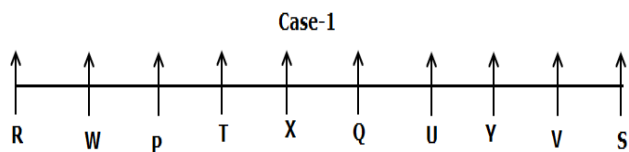
Directions (37-39):

37) Answer: A

38) Answer: E

39) Answer: D

Common Explanation

Criminal	Ah	Procedure	Vm
Code	Pt	Legislation	Sm

Civil/Punishment/ Report	Qv/rh/ **	Penal/Amend ment	Gs/k m
Committee/Judici al/****	Fm/qs /rh		

Directions (40-44):

40) Answer: B

41) Answer: A

42) Answer: C

43) Answer: E

44) Answer: B

Final Arrangement

Arrangement-1:

Row-1:   Q 6 L 6 P 6 Y 6 I 6 R 26 56m

Row-2:   M 4 X 4 U 4 J 4 W 4 O 18 38m

Arrangement-2:

Row-1:   6   6   6 Y 6 I 6 R 26 56m

Row-2:   M 4 X 4 U 4 4 4 18 38m

Row-3:   Q 8 P 8 L 8 W 8 O 8 J 23 63m
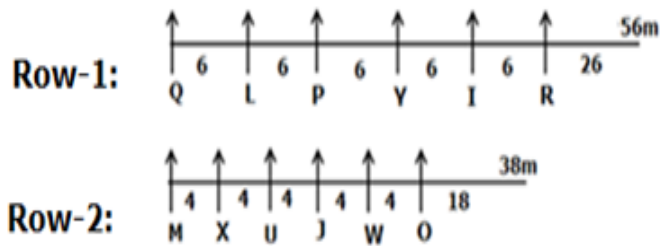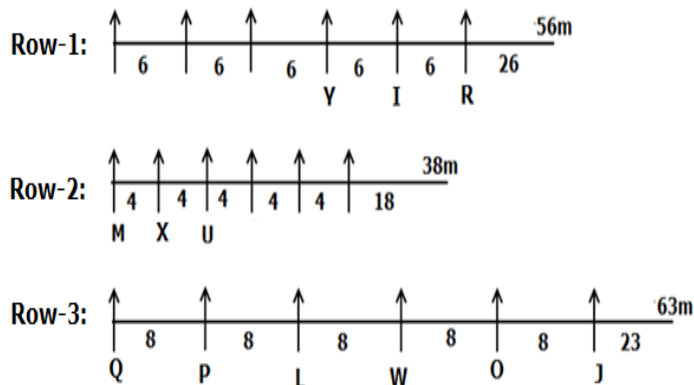
Common Explanation

We have,

- W sits 22m away from the right end.
- The distance between W and O is 4m.
- M sits 8m away from U.
- Q sits to the north of M.

- U does not sit to the left of M.

From the above condition, there are two possibilities.
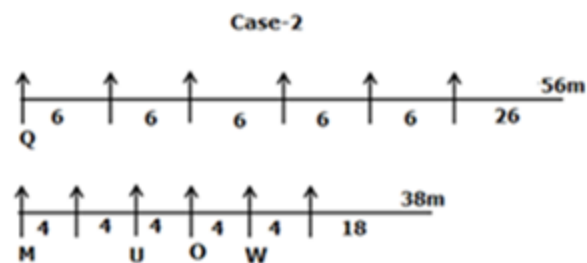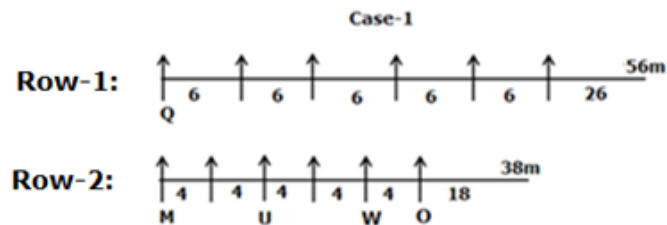
Case-1

Row-1: Q | 6 | 6 | 6 | 6 | 26 | 56m

Row-2: M | 4 | 4 U | 4 | 4 W | 4 O | 18 | 38m

Case-2

Row-1: Q | 6 | 6 | 6 | 6 | 6 | 26 | 56m

Row-2: M | 4 | 4 U | 4 | 4 O | 4 W | 18 | 38m

Again we have,

- The number of persons sitting to the left of Q is the same as the number of persons sitting to the right of R.
- The distance between R and Y is 4m more than the distance between X and J.
- The distance between J and M is not less than 5m.
- The number of persons sitting to the left of P is one more than the number of persons sitting to the right of I.
- The distance between R and I is less than the distance between M and U.

From the above condition, Case-2 gets eliminated. Case-1 shows the final arrangement.

Case-1

Row-1: Q | 6 | 6 L | 6 P | 6 Y | 6 I | 26 R | 56m

Row-2: M | 4 | 4 X | 4 U | 4 J | 4 W | 18 O | 38m

Case-2 (crossed out)

Row-1: Q | 6 | 6 | 6 | 6 | 6 | 26 R | 56m

Row-2: M | 4 | 4 U | 4 O | 4 W | 4 | 18 | 38m
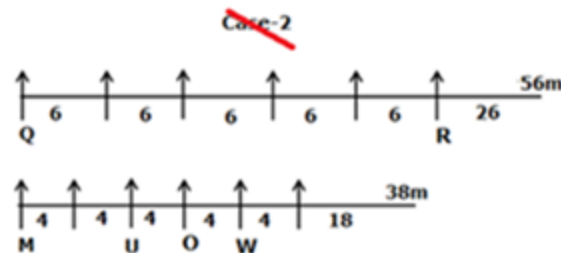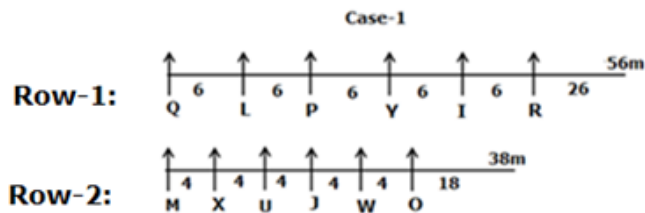
Arrangement 2:

Again we have,

- Now some persons in the first two rows are shifted to row-3. The persons sitting to the right of U in row-2 in arrangement 1 are arranged in alphabetical order from the right end in row-3 and the persons sitting to the left of Y in row-1 in arrangement 1 are arranged in the reverse alphabetical order from the left end in row-3.

From the above condition, Case1 shows the final arrangement.

Row-1: | 6 | 6 | 6 | 6 Y | 6 I | 26 R | 56m

Row-2: M | 4 X | 4 U | 4 | 4 | 4 | 18 | 38m

Row-3: Q | 8 P | 8 L | 8 | 8 W | 8 O | 23 J | 63m
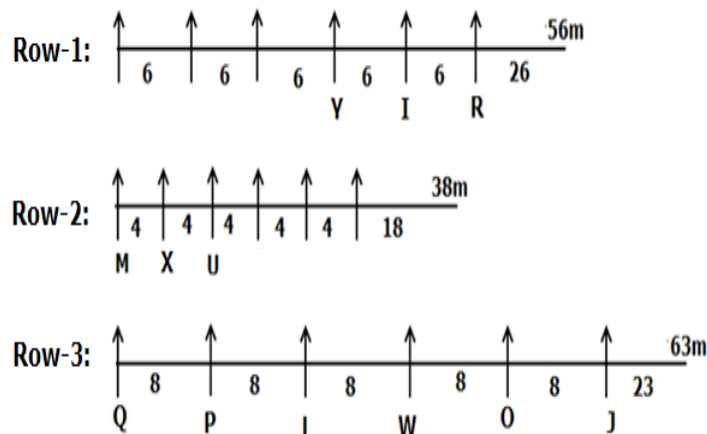
45) Answer: B

The statement speaks of the failure of housing and Urban Development policies of the government, hence the policy in regard to the urban housing should be reviewed

IBPS RRB Clerk Mains 2021 Memory Based

Directions (1-5): Study the following information carefully and answer the below questions.

Ten persons- B, D, F, G, H, K, N, R, T and Y are sitting around a circular table facing the centre but not necessarily in the same order.

Three persons sit between B and T. B sits second to the right of G. N and G are immediate neighbours. G sits sixth to the left of H. One person sits between H and K. D sits adjacent to neither H nor K. R sits second to the right of F. R and K are not immediate neighbours. The number of persons sitting between D and B is the same as the number of persons sitting between B and F.

1) How many persons sit between G and K when counted from the right of G?

a) No one

b) Four

c) One

d) Two

e) Three

2) Which of the following statement is true?

a) All the statements are true

b) R and K are immediate neighbours of F

c) T and H are immediate neighbours

d) G sits third to the left of K

e) Two persons sit between T and F when counted from the right of F

3) Who among the following person sits third to the right of B?

a) The one who sits second to the left of G

b) The one who sits immediate left of H

c) N

d) B

e) Y

4) Four of the following five are similar in such a way to form a group, which of the following one doesn't belong to the group?

a) TH

b) FY

c) BG

d) DK

e) GT

5) If the position of R and K are interchanged in the same way the position of B and N are interchanged then, who among the following person sits second to the right of N?

a) F

b) H

c) The one who sits second to the left of D

d) R

e) G

Directions (6-9): Study the following information carefully and answer the below questions.

Ram starts walking from point A towards the east and walks for 7m to reach point B, then he turns to the south and walks for 19m to reach point C where he turns to the left and walks for 12m to reach point D where he turns to the left and walks for 11m to reach point E.

Arjun starts walking from point P towards the north and walks for 7m to reach point O, then he turns to the left and walks for 17m to reach point R where he turns to the left and walks for 15m to reach point S then he turns to the right walks for 13m to reach point E.

6) What is the direction of point R with respect to point E?

a) North-west

b) North-east

c) South-east

d) South-west

e) North

7) Four of the following five are alike in a certain way and hence form a group. Which of the following one does not belong to the group?

a) AC

b) BD

c) BS

d) RP

e) OS

8) If Point X is 7m south of point R, then what is the shortest distance between X and B?

a) 25m

b) 24m

c) 21m

d) 20m

e) 26m

9) If point Z is north of point B and west of point R, then what is the shortest distance between point Z and point O?

a) 42m

b) 40m

c) 39m

d) 43m

e) 44m

Directions (10-14): Study the following information carefully and answer the below questions.

Fourteen persons are sitting in the two parallel rows and facing each other. J, K, L, M, N, O and P are sitting in Row 1 and facing south while A, B, C, D, E, F and G are sitting in Row 2 and facing north but not necessarily in the same order.

A sits second from one of the ends. Only two persons sit between A and the one who faces K. Only two persons sit between K and J. K faces the one who is an immediate neighbour of B. The immediate neighbour of C faces O. No one sits between J and O. L sits second to the right of P. The number of persons sitting between O

and M is the same as the number of persons sitting between A and B. D sits to the right of A. F sits second to the right of E. F sits opposite to neither K nor O.

10) Who among the following person sits second to the left of D?

a) B

b) The one who sits second to the right of E

c) The one who sits opposite to N

d) C

e) A

11) Who among the following person sits opposite to B?

a) L

b) J

c) The one who sits second to the left of N

d) The one who sits immediate right of M

e) K

12) How many persons sit between P and J?

a) No one

b) One

c) Same as between G and B

d) Two

e) Same as between D and F

13) What is the position of C from the right end?

a) Fifth

b) Fourth

c) Sixth

d) Third

e) Second

14) Which of the following statement is true?

a) N does not sit at the end of the row

b) K sits immediate left of L

c) Only two persons sit between A and B

d) J sits opposite to D

e) All the statements are true

Directions (15-16): Study the following information carefully and answer the below questions.

Six members in the family.Tis the sister-in-law of K. H is the son of B. F is the mother-in-law of W. K is the only daughter of B. H has a brother. K and H are unmarried. W is the brother of K.

15) Who among the following person is the mother of T?

a) H

b) W

c)B

d) F

e) K

16)How is B related to T?

a) Father-in-law

b)Mother-in-law

c) Can't be determined

d) Father

e) Mother

Directions (17-21): Study the following information carefully and answer the below questions.

Eleven persons-A, B, C, D, E, P, Q, R, S, T, and V are working in the company with different designations. The designations are in decreasing order such as Chief Financial Officer(CFO), Executive Director(ED), Vice President(VP), General Manager(GM), Operational Manager(OM), Senior Manager(SM), Manager, Assistant Manager(AM), PO, Clerk and Office Assistant(OA). Chief Financial Officer(CFO) is the seniormost designation.

Not more than two persons are senior to P. Only three persons are designated between P and E. B is three persons junior to A. E is senior to A. A works as neither Manager nor Senior Manager. The number of persons senior to V is the same as the number of persons junior to B. The number of persons designated between E and A is the same as the number of persons designated between V and S. T is immediately senior to Q but both of them are immediately senior and immediately junior to neither E nor P. C works as neither General Manager nor Operational manager. The number of persons designated between S and D is the same as the number of persons designated between D and C. R is junior to D.

17) Who among the following person is immediately junior to A?

a) R

b) The one who is immediately senior to Q

c) C

d) D

e) P

18) How many persons are senior to D?

a) As many persons are junior to C

b) Four

c) As many persons are junior to A.

d) Two

e) One

19) In which of the following designation does Q work?

a) Clerk

b) Office Assistant

c) PO

d) Assistant Manager

e) Manager

20) Four of the following five are alike in a certain way and hence form a group. Who among the following pair of persons does not belong to the group?

a) VP

b) SD

c) PR

d) CA

e) AB

21) Which of the following combination is true?

a) B- Vice President

b) T- Clerk

c) C- Senior Manager

d) V- Executive Director

e) P- General Manager

Directions (22-23): Read both the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

22) Statements:

All Stars are Functions

All Functions are Planets

Only a few Planets are Trees

No Tree is Mango

Conclusions:

I. Some Functions can be Mangoes

II. All Stars are Planets

a) If Only conclusion I follows.

b) If Only conclusion II follows.

c) If either conclusion I or II follows.

d) If Neither conclusion I nor II follows.

e) If both conclusions I and II follow.

23) Statements:

Only a few Towns are Cities

All Cities are Villages

No Village is Factory

Some Factories are Organisation

Conclusions:

I. At least some Villages are Town

II. All Factory can never be Village

a) If Only conclusion I follows.

b) If Only conclusion II follows.

c) If either conclusion I or II follows.

d) If Neither conclusion I nor II follows.

e) If both conclusions I and II follow.

Directions (24-28): Study the following information carefully and answer the below questions.

Six persons- A, B, C, P, Q and S are attending the event on two different days either 11 or 22 of three different months- October, November and December of the same year. They are from different cities- Indore, Lucknow, Surat, Kolkata, Delhi, and Mumbai but not necessarily in the same order.

The one who is from Surat attends the event in the month which has 30 days. Only one person attends the event between B and the one who is from Surat. B attends the event after the one who is from Surat. The number of persons attending before B is the same as the number of persons attending after Q. The one who is from Lucknow attends the event in the same month of Q. Only three persons attend between A and the one who is from Indore. A is not from Lucknow. P attends immediately after the one who is from Delhi. Only one person attends between P and the one who is from Kolkata. C is not from Delhi.

24) Who among the following person is from Indore?

a) The one who attends on October 11

b) The one who attends on November 22

c) A

d) B

e) S

25) How many persons attend before P?

a) Five

b) Four

c) Two

d) Three

e) One

26) Which of the following statement is true?

a) Only one person attends between Q and P

b) C attends the event on December 11

c) No one attends after A

d) P is from Surat

e) All the statements are true

27) C is from which of the following city?

a) Indore

b) Kolkata

c) Lucknow

d) Delhi

e) Mumbai

28) Four of the following five are alike in a certain way to form a Group. Find the one which does not belong to the group?

a) Q-Lucknow

b) C-Delhi

c) S-November 22

d) A- Kolkata

e) December 22- C

29) If all the letters of the following words are arranged in alphabetical order from the left end, then which of the following word the first letter of I from the left end, the second letter of II from the

left end and the third letter of III from the left end are remains unchanged in its original position?

I. NTMGVR

II. UKISMB

III. GSLTEN

a) Only I

b) Both I and III

c) Only III

d) All I, II, and III

e) None

30) If the third letter of each word from the left end are taken together to form a meaningful word, then which of the following words do not form a meaningful word?

a) Aware, Cycle, False, Limit

b) Trend, Beach, Curve, Media

c) Virus, Woman, Wound, Entry

d) Bread, Clear, Logic, Order

e) Offer, bring, Delay, Human

e) Offer, bring, Delay, Human→Film

Directions (31-35): Study the following information carefully and answer the below questions.

Six persons-K, L, M, N, O and P attend the seminar on six different days of the week starting from Monday to Saturday. They attend in different states- Rajasthan, Goa, Punjab, Odisha, Bihar and Maharashtra. All the information is not necessarily in the same order.

Less than two persons attend the seminar before K. Only one person attends between K and the

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one who attends the seminar in Punjab. L attends three days before the one who attends the seminar in Goa. The number of persons attending before L is the same as the number of persons attending after P. O attends immediately before the one who attends the seminar in Bihar. Only one person attends between N and the one who attends the seminar in Odisha. N attends after the one who attends the seminar in Rajasthan. M attends the seminar in neither Maharashtra nor Odisha.

31) Who among the following person attends the seminar in Bihar?

a) P

b) M

c) The one who attends immediately before M

d) The one who attends on Tuesday

e) L

32) Four of the following five are alike in a certain way and hence form a group. Which of the following one does not belong to the group?

a) Monday-Bihar

b) Thursday-O

c) L- Punjab

d) P-Maharashtra

e) Friday-Goa

33) In which of the following state does O attend the seminar?

a) Maharashtra

b) Punjab

c) Odisha

d) Rajasthan

e) Bihar

34) Which of the following statement is true?

a) N attends immediately after P

b) O attends on Tuesday

c) No one attends after N

d) Only one person attends between L and M

e) All the statements are true

35) On which of the following day does N attend the seminar?

a) Friday

b) Thursday

c) Tuesday

d) Monday

e) Saturday

Directions (36-40): Study the following information carefully and answer the below questions.

Words arrangement machine when given an input line of numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: Belt into user form able disc zero game mine Tour

Step I: zero able Belt into user form disc game mine Tour

Step II: zero able into form disc game mine Tour user belt

Step III: Tour disc zero able into form game mine user belt

Step IV: Tour disc zero able into game user belt mine form

Step V: Into game Tour disc zero able user belt mine form

Step V is the last step.

Input: Book Jack Yes Egg Tiger Oven Lime Done Read Gate

36) How many words are there between "Egg" and "Done" in step V?

a) Three

b) Four

c) Five

d) Two

e) None of the above

37) Which of the following word is fifth to the left of the eighth word from the left end in step IV?

a) Jack

b) Read

c) Egg

d) Yes

e) Oven

38) Which of the following words are between "Jack" and "Lime" in step II?

a) Gate

b) "Book" and "Oven"

c) "Egg" and "Oven"

d) Lime

e) Tiger

39) In which of the following steps "Oven Lime Gate" is seen in the same sequence for the first time?

a) Step III

b) Step I

c) Step II

d) Both a and c

e) Both b and c

40) How many words are to the right of "Lime" in step IV?

a) Three

b) Seven

c) Four

d) Five

e) Six

Answer Key with Explanation

Directions (1-5):

1) Answer: E

2) Answer: E

3) Answer: B

4) Answer: D (in all cases 2nd person sits second to the left of 1st person except option d)

5) Answer: D

Final Arrangement
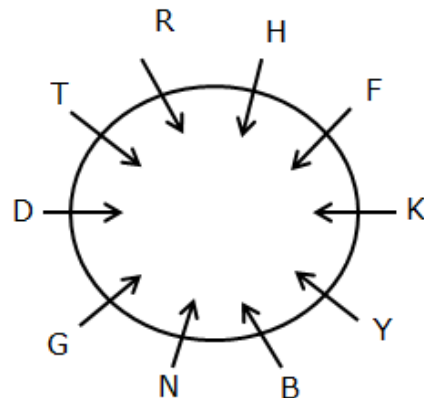
We have,

- Three persons sit between B and T.
- B sits second to the right of G.

From the above condition, there are two possibilities.
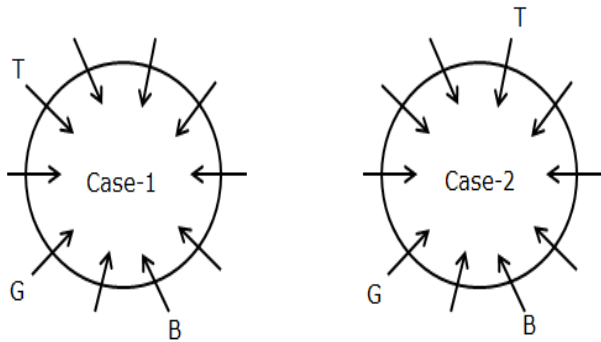
Again we have,

- N and G are immediate neighbours.
- G sits sixth to the left of H.

From the above condition, case2 is eliminated.
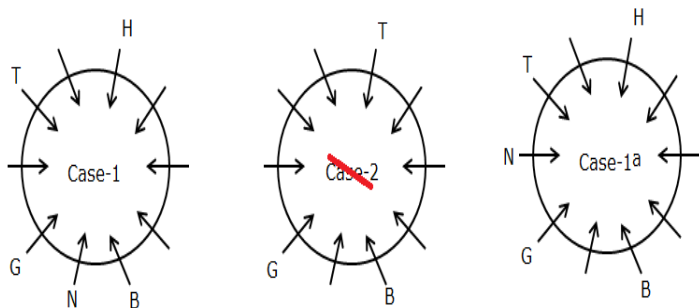
Case1 has one more possibility.

Again we have,

- One person sits between H and K.
- D sits adjacent to neither H nor K.
- R sits second to the right of F.
- R and K are not immediate neighbours.
- The number of persons sitting between D and B is the same as the number of persons sitting between B and F.

From the above condition, Case-1a gets eliminated. Case1 shows the final arrangement.
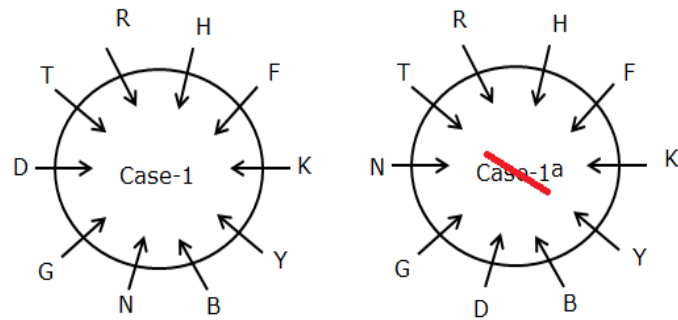
Directions (6-9):
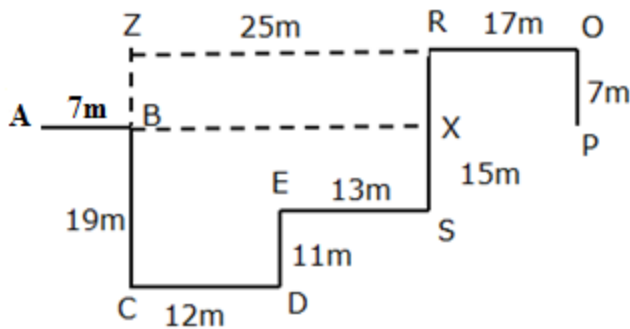
6) Answer: B

7) Answer: E

8) Answer: A

9) Answer: A

Directions (10-14):

10) Answer: C

11) Answer: D

12) Answer: E

13) Answer: B

14) Answer: B

Final Arrangement
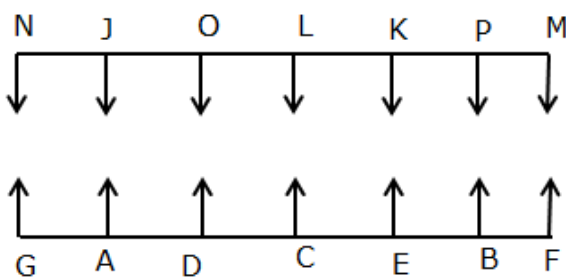
We have,

- A sits second from one of the ends.

- Only two persons sit between A and the one who faces K.
- Only two persons sit between K and J.

From the above condition, there are two possibilities.

Case-1   Case-2
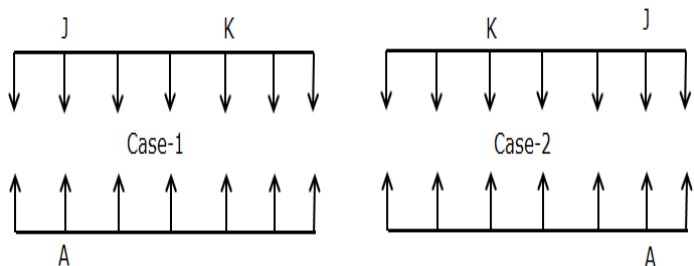
Again we have,

- K faces the one who is an immediate neighbour of B.
- The immediate neighbour of C faces O.
- No one sits between J and O.

Case-1   Case-2
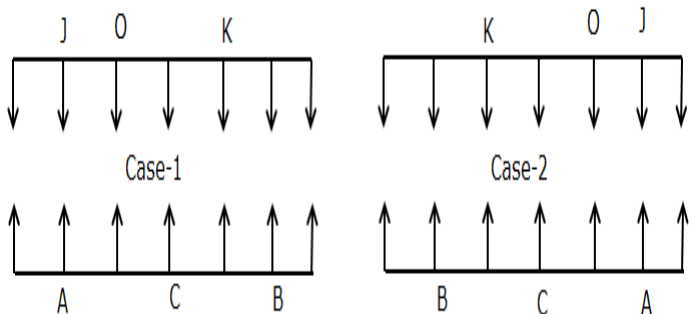
Again we have,

- L sits second to the right of P.
- The number of persons sitting between O and M is the same as the number of persons sitting between A and B.
- D sits to the right of A.
- F sits second to the right of E.
- F sits opposite to neither K nor O.

From the above condition, case2 is eliminated. Case1 shows the final arrangement.

Case-1   Case-2
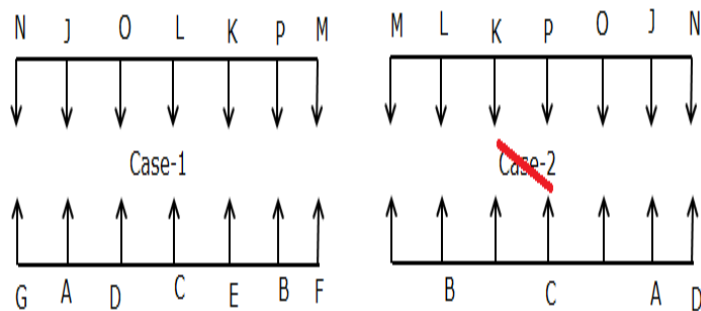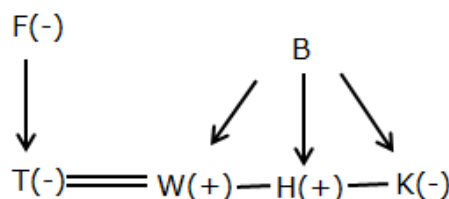
Directions (15-16):

15) Answer: D

16) Answer: C

Directions (17-21):

17) Answer: B

18) Answer: C

19) Answer: A

20) Answer: E(in all cases one person is designated between 1st and 2nd person except option e)

21) Answer: C

Final Arrangement

Designation	Person
CFO	V
ED	S
VP	P
GM	D
OM	R
SM	C
Manager	E

AM	A
PO	T
Clerk	Q
OA	B

We have,

- Not more than two persons are senior to P.
- Only three persons are designated between P and E.

From the above condition, there are three possibilities.

Designation	Case-1	Case-2	Case-3
CFO			P
ED		P	
VP	P		
GM			
OM			E
SM		E	
Manager	E		
AM			
PO			
Clerk			
OA			

Again we have,

- B is three persons junior to A.
- E is senior to A.
- A works as neither Manager nor Senior Manager.
- The number of persons senior to V is the same as the number of persons junior to B.

From the above condition, case3 is eliminated.

Designation	Case-1	Case-2	Case-3
CFO	V	V	P
ED		P	
VP	P		
GM			
OM			E
SM		E	
Manager	E		
AM	A	A	A
PO			
Clerk			
OA	B	B	B

Again we have,

- The number of persons designated between E and A is the same as the number of persons designated between V and S.
- T is immediately senior to Q but both of them are immediately senior and immediately junior to neither E nor P.

Designation	Case-1	Case-2
CFO	V	V
ED	S	P
VP	P	S
GM		
OM		
SM		E
Manager	E	
AM	A	A
PO	T	T
Clerk	Q	Q
OA	B	B

Again we have,

- C works as neither General Manager nor Operational manager.
- The number of persons designated between S and D is the same as the number of persons designated between D and C.
- R is junior to D.

From the above condition, case2 gets eliminated. Case1 shows the final arrangement.

Designation	Case-1	Case-2
CFO	V	V
ED	S	P
VP	P	S
GM	D	R
OM	R	D
SM	C	E
Manager	E	C
AM	A	A
PO	T	T
Clerk	Q	Q
OA	B	B

Directions (22-23):

22) Answer: E
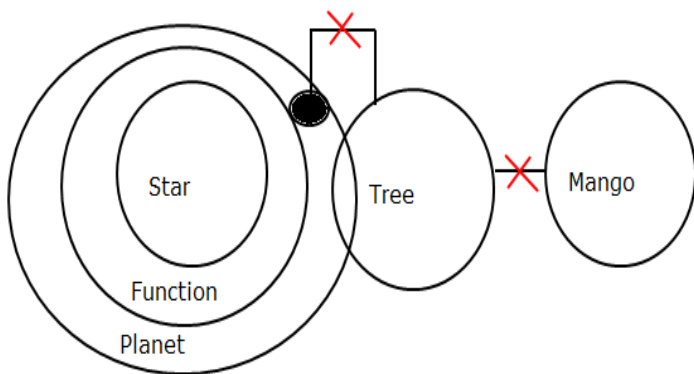
Both conclusions I and II follow

23) Answer: E
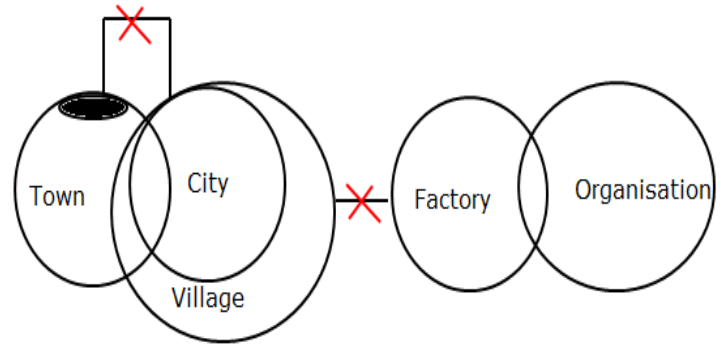
Both conclusions I and II follow

Directions (24-28):

24) Answer: A

25) Answer: D

26) Answer: D

27) Answer: C

28) Answer: E

Final Arrangement

Month with date	Person	City
October 11	Q	Indore
October 22	C	Lucknow
November 11	S	Delhi
November 22	P	Surat
December 11	A	Mumbai
December 22	B	Kolkata

We have,

- The one who is from Surat attends the event in the month which has 30 days.
- Only one person attends the event between B and the one who is from Surat.
- B attends the event after the one who is from Surat.

From the above condition, there are two possibilities.

Month with date	Case1 Person	Case1 City	Case2 Person	Case2 City
October 11				
October 22				
November 11		Surat		
November 22				Surat
December 11	B			
December 22			B	

Again we have,

- The number of persons attending before B is the same as the number of persons attending after Q.
- The one who is from Lucknow attends the event in the same month of Q.
- Only three persons attend between A and the one who is from Indore.
- A is not from Lucknow.

Month with date	Case1 Person	Case1 City	Case2 Person	Case2 City
October 11		Lucknow	Q	Indore
October 22	Q	Indore		Lucknow
November 11		Surat		
November 22				Surat
December 11	B		A	
December 22	A		B	

Again we have,

- P attends immediately after the one who is from Delhi.
- Only one person attends between P and the one who is from Kolkata.
- C is not from Delhi.

From the above condition, case1 is eliminated. Case2 shows the final arrangement.

Month with date	Case1 Person	Case1 City	Case2 Person	Case2 City
October 11		Lucknow	Q	Indore
October 22	Q	Indore	C	Lucknow
November 11		Surat	S	Delhi
November 22			P	Surat
December 11	B		A	Mumbai
December 22	A		B	Kolkata

29) Answer: C

I. NTMGVR→ GMNRTV

II. UKISMB→BIKMSU

III. GSLTEN→ EGLNST

30) Answer: C

a) Aware, Cycle, False, Limit→ CALM

b) Trend, Beach, Curve, Media→DEAR

c) Virus, Woman, Wound, Entry→MURT

d) Bread, Clear, Logic, Order→Edge

e) Offer, bring, Delay, Human→Film

Directions (31-35):

31) Answer: D

32) Answer: B

33) Answer: D

34) Answer: A

35) Answer: A

Final Arrangement

Days	Person	City
Monday	O	Rajasthan
Tuesday	K	Bihar
Wednesday	L	Odisha
Thursday	P	Punjab
Friday	N	Maharashtra
Saturday	M	Goa

We have,

- Less than two persons attend the seminar before K.
- Only one person attends between K and the one who attends the seminar in Punjab.

From the above condition, there are two possibilities.

Days	Case1 Person	Case1 City	Case2 Person	Case2 City
Monday			K	
Tuesday	K			
Wednesday				Punjab
Thursday		Punjab		
Friday				
Saturday				

Again we have,

- L attends three days before the one who attends the seminar in Goa.

- The number of persons attending before L is the same as the number of persons attending after P.
- O attends immediately before the one who attends the seminar in Bihar.

From the above condition, case2 is eliminated.

Days	Case1		Case2		Case2a	
	Person	City	Person	City	Person	City
Monday	O		K		K	
Tuesday	K	Bihar			L	
Wednesday	L		L	Punjab	O	Punjab
Thursday	P	Punjab	P			Bihar
Friday					P	Goa
Saturday		Goa		Goa		

Again we have,

- Only one person attends between N and the one who attends the seminar in Odisha.
- N attends after the one who attends the seminar in Rajasthan.
- M attends the seminar in neither Maharashtra nor Odisha.

From the above condition, case2a is eliminated.

Case1 shows the final arrangement.

Days	Case1		Case2a	
	Person	City	Person	City
Monday	O	Rajasthan	K	Rajasthan
Tuesday	K	Bihar	L	Odisha
Wednesday	L	Odisha	O	Punjab
Thursday	P	Punjab	N	Bihar
Friday	N	Maharashtra	P	Goa
Saturday	M	Goa	M	Maharashtra

Directions (36-40):

For Words Arrangement: The words are arranged in pairs as per alphabetical series according to the first letter of the given words.

The first letter of the word has the largest place value and the first letter of the word has smallest place value according to the alphabetical series are placed at the left end together in step I, then the first letter of the word has second largest place value and the first letter of the word has second smallest place value according to the alphabetical series are placed at the extreme right end together in step II, and so on..,

Input: Book Jack Yes Egg Tiger Oven Lime Done Read Gate

Step I: Yes Book Jack Egg Tiger Oven Lime Done Read Gate

Step II: Yes Book Jack Egg Oven Lime Read Gate Tiger Done

Step III: Read Egg Yes Book Jack Oven Lime Gate Tiger Done

Step IV: Read Egg Yes Book Jack Lime Tiger Done Oven Gate

Step V: Lime Jack Read Egg Yes Book Tiger Done Oven Gate

36) Answer: A

37) Answer: D

38) Answer: C

39) Answer: A

40) Answer: C

Reasoning Ability

Directions (1-5): Study the following information carefully and answer the below questions.

The first sixteen consecutive even numbers are arranged in ascending order from the top to bottom. The word "GOAL" is arranged in the multiple of 8's position from the top in alphabetical order.

Only one letter is placed between A and P. The number of letters placed above P is the same as the number of letters placed below K. Only one letter is placed between K and N. The number of letters placed between G and K is the same as the number of letters placed between P and B. B is not placed two letters before K. Only one letter is placed between B and H which is placed after B. M is placed three positions above V which is not placed adjacent to L. M and A are not placed adjacent to each other. D is placed immediately above R. The number of letters placed between D and P is the same as the number of letters placed between R and B. I is placed two positions above T. C is one of the letters placed in the arrangement.

1) How many letters are placed between R and N?

a) Five

b) Nine

c) Eight

d) Seven

e) Six

2) The number of letters placed above T is same as the number of letters placed below_____

a) The letter which is placed immediately above N

b) C

c) The letter which is placed two positions below G

d) I

e) P

3) What is the position of "R" in the arrangement?

a) 20

b) 14

c) 10

d) 12

e) 18

4) What is the sum of the position of H and N?

a) 42

b) 32

c) 30

d) 48

e) 60

5) Which of the following statement is true?

a) B is placed three letters below R

b) More than two letters are placed between B and N

c) T is placed at sixth position

d) L is placed five letters after M

e) All the statements are true

Directions (6-10): Study the following information carefully and answer the below questions.

In a certain code language, some words are coded as follows.

"Motive View New Help" is coded as "K%24 __(1)__ P&18 __(2)__".

"Service Bank Draft Cut" is coded as "__(3)__ E%13 B14$ Q16#".

"Ideal Fare Yield Count" is coded as "I%11 __(4)__ Q17# A21#".

6) What comes in place of ___(1)___?

a) W12@

b) T9@

c) V@12

d) C%12

e) E%3

7) What comes in place of ___(3)___?

a) Q17@

b) J21%

c) P16%

d) R$17

e) None of these

8) What is the code for the word "Heavy" in the same code language?

a) B21%

b) U@33

c) V17#

d) R#19

e) None of these

9) What comes in place of ___(4)___?

a) K13%

b) J11#

c) P16%

d) I3#

e) None of these

10) What comes in place of ___(2)___?

a) Z13%

b) Y%45

c) W45%

d) B%2

e) K13%

Answer Key with Explanation

Directions (1-5):

1) Answer: E

2) Answer: B

3) Answer: D

4) Answer: D

5) Answer: E

Final Arrangement

Position	Letters
2	I
4	P
6	T
8	A
10	D
12	R
14	M
16	G
18	B
20	V
22	H
24	L
26	N
28	C
30	K
32	O

We have,

- The word "GOAL" is arranged in multiples of 8's position from the top in alphabetical order.
- Only one letter is placed between A and P.
- The number of letters placed above P is the same as the number of letters placed below K.
- Only one letter is placed between K and N.

From the above condition, there are three possibilities.

	Case-1	Case-2	Case-2a
2			
4	P		
6			
8	A	A	A
10			
12		P	P
14			
16	G	G	G
18		N	
20			
22		K	K
24	L	L	L
26	N		N
28			
30	K		
32	O	O	O

Again we have,

- The number of letters placed between G and K is the same as the number of letters placed between P and B.
- B is not placed two letters before K.
- Only one letter is placed between B and H which is placed after B.
- M is placed three positions above V which is not placed adjacent to each other
- M and A are not placed adjacent to each other

	Case-1	Case-2	Case-2a
2			
4	P		
6		B	B
8	A	A	A
10		H	H
12		P	P
14	M	M	M
16	G	G	G
18	B	N	
20	V	V	V
22	H	K	K
24	L	L	L
26	N		N
28			
30	K		
32	O	O	O

	Case-1	~~Case-2~~	~~Case-2a~~
2	I		
4	P		
6	T	B	B
8	A	A	A
10	D	H	H
12	R	P	P
14	M	M	M
16	G	G	G
18	B	N	
20	V	V	V
22	H	K	K
24	L	L	L
26	N		N
28	C		
30	K		
32	O	O	O

Again we have,

- D is placed immediately above R.
- The number of letters placed between D and P is the same as the number of letters placed between R and B.
- I is placed two positions above T.
- C is one of the letters placed in the arrangement.

From the above condition, Case-2 and Case-2a get eliminated. Case-1 shows the final arrangement.

Directions (6-10):

6) Answer: B

7) Answer: A

8) Answer: C

9) Answer: D

10) Answer: B

We have:

For letter: If the number of letters in the word is even, then take the third next letter of the first letter in alphabetical series, else if the number of letters in the word is odd then take the third previous letter of the last letter in alphabetical series.

For symbol: symbol represents the number of letters in the word.

@ → 3, % → 4, # →5, &→ 6, and $ → 7

For number: If the number of letters in the word is even, then the sum of the place value of the first and the last letter as per the English alphabetical order is taken, else if the number of letters in the word is odd then the difference between the place value of the first and the last letter as per the English alphabetical order is taken.

Based on the above statement we have:

"Motive View New Help" is coded as "K%24 T9@ P&18 Y%45".

"Service Bank Draft Cut" is coded as "Q17@ E%13 B14$ Q16#".

"Ideal Fare Yield Count" is coded as "I%11 I3# Q17# A21#".

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Quantitative Aptitude

Directions (01-05): Read the following information carefully and answer the questions.

The given pie chart shows the percentage distribution of total number of shirts (white and black) sold by five different shops i.e. A, B, C, D and E.

Total number of shirts (white and black) sold=800
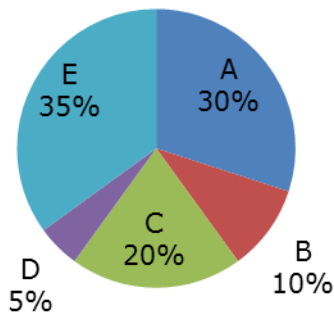
1) If the sum of the total number of white shirts sold by shops A and C is 240, then find the total number of black shirts sold by shop A and C together?

a) 120

b) 140

c) 180

d) 160

e) None of these

2) If the total number of shirts sold by shop F is 160 more than that of shop D and the ratio of number of white and black shirts sold by shop F is 3:2, then find the number of white shirts sold by shop F?

a) 120

b) 270

c) 180

d) 210

e) None of these

3) Find the ratio of total number of shirts sold by shop A and total number of shirts sold by shop D?

a) 5:3

b) 6:1

c) 7:4

d) 6:5

e) None of these

4) Find the difference between the total number of shirts sold by shop B and total number of shirts sold by shop E?

a) 260

b) 280

c) 200

d) 240

e) None of these

5) Total number of shirts sold by shop A is what percentage more than total number of shirts sold by shop C?

a) 50%

b) 40%

c) 80%

d) 70%

e) None of these

Directions (06-10): Read the following information carefully and answer the questions.

The given pie chart shows the percentage distribution of total number of orders delivered by Amazon in five different years i.e. 2001, 2002, 2003, 2004 and 2005.

Total number of orders delivered=600

% distribution of total number of orders delivered

2005 30%
2001 25%
2002 10%
2003 15%
2004 20%
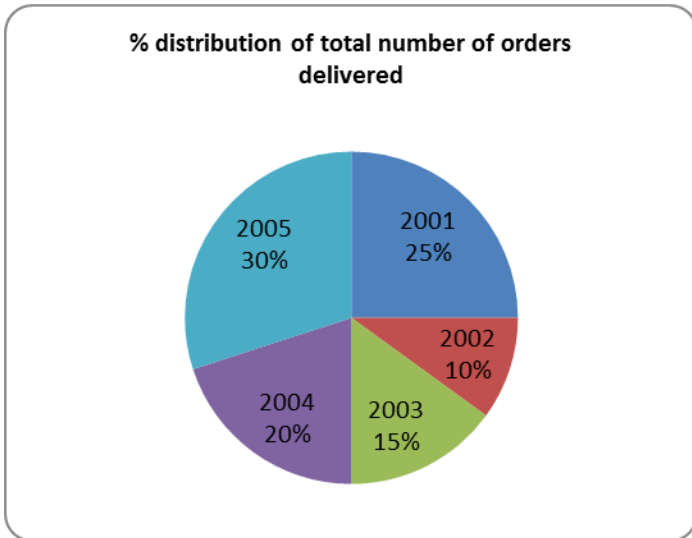
6) Total number of orders delivered in 2005 is how much more/less than total number of orders delivered in 2002?

a) 120 more
b) 150 less
c) 100 more
d) 180 less
e) None of these

7) Find the ratio of total number of orders delivered in 2001 and total number of orders delivered in 2004?

a) 7:4
b) 3:5
c) 1:2
d) 5:4
e) None of these

8) Total number of orders delivered in 2003 is what percentage of total number of orders delivered in 2001?

a) 30%
b) 15%
c) 60%
d) 25%
e) None of these

9) Find the difference between the total number of orders delivered in 2003 and total number of orders delivered in 2005?

a) 70
b) 90
c) 50
d) 80
e) None of these

10) If the ratio of number of orders delivered in 2002 and 2006 is 3:5 and then find the average number of orders delivered in 2004 and 2006 together?

a) 150
b) 170
c) 110
d) 190
e) None of these

Direction (11-15): Read the following information carefully and answer the questions given below.

The given pie chart shows the percentage distribution of total number of water bottles sold

by five different shops namely Shop L, Shop M, Shop N, Shop O and Shop P.

% distribution of total number of orders delivered

25% — 2001
10% — 2002
15% — 2003
20% — 2004
30% — 2005
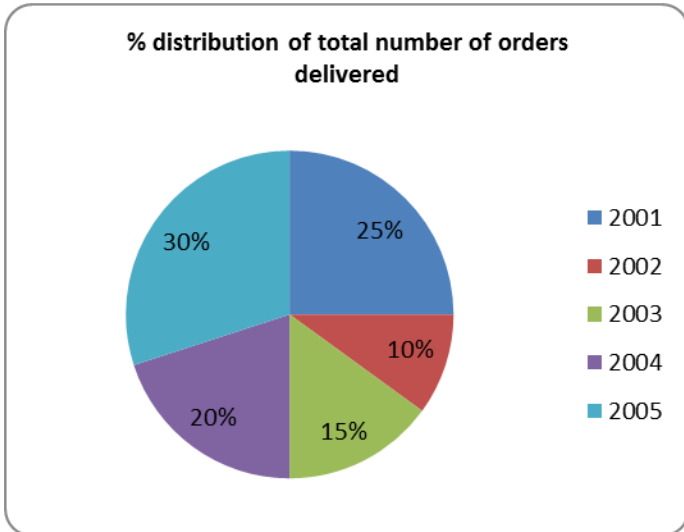
11) Find the difference between the total number of water bottle sold by Shop L and Shop P.

a) 20

b) 10

c) 30

d) 50

e) None of these

12) Find the ratio of the total number of water bottles sold by Shop M and the total number of water bottles sold by Shop N.

a) 3:2

b) 4:5

c) 5:6

d) 5:4

e) None of these

13) Find the average of total number of water bottles sold by Shop L and Shop N.

a) 125

b) 150

c) 100

d) 90

e) None of these

14) The total number of water bottles sold by Shop M is what percentage more/less than the total number of water bottles sold by Shop O?

a) 25% more

b) 10% more

c) 20% more

d) 50% more

e) None of these

15) If the ratio of the total number of water bottles sold by Shop O and the total number of water bottles sold by Shop Q is 2:5, then find the total number of water bottles sold by Shop Q.

a) 150

b) 80

c) 200

d) 120

e) None of these

Direction (16-20): Read the following information carefully and answer the questions given below. The given pie chart shows the degree distribution of mobile phones produced in five different days namely Monday, Tuesday, Wednesday, Thursday and Friday.

Total number of mobile phones produced = 900

- Monday 60^0
- Tuesday 40^0
- Wednesday 100^0
- Thursday 40^0
- Friday 120^0
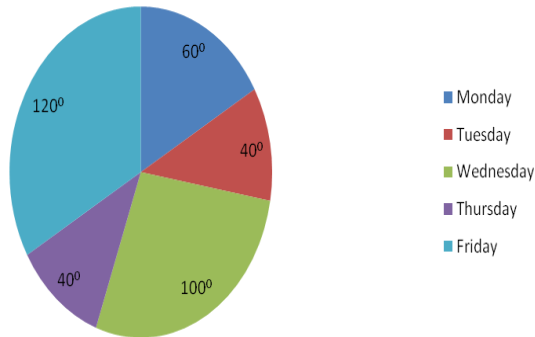
16) The total number of mobile phones produced on Monday is what percentage of the total number of mobile phones produced on Wednesday?

a) 50%

b) 40%

c) 60%

d) 70%

e) None of these

17) Find the ratio of the total number of mobile phones produced on Thursday and the total number of mobile phones produced on Friday.

a) 2:5

b) 1:3

c) 4:3

d) 1:1

e) None of these

18) If out of the total number of mobile phones produced on Wednesday, 20% of the mobile phones are defective, then find the total number of mobile phones which are non-defective on Wednesday.

a) 150

b) 180

c) 160

d) 200

e) None of these

19) Find the sum of the total number of Mobile phones produced on Wednesday and Thursday.

a) 350

b) 300

c) 200

d) 250

e) None of these

20) Find the average number of mobile phones produced on Tuesday, Wednesday and Thursday.

a) 200

b) 250

c) 85

d) 150

e) None of these

Answer Key with Explanation

Directions (01-05):

Total number of shirts sold by shop A=800*30/100=240

Total number of shirts sold by shop B=800*10/100=80

Total number of shirts sold by shop C=800*20/100=160

Total number of shirts sold by shop D=800*5/100=40

Total number of shirts sold by shop E=800*35/100=280

Shop	Total number of shirts sold
A	240
B	80
C	160
D	40
E	280

1. Answer: D

Required total =240+160-240=160

2. Answer: A

Total number of shirts sold by shop F=40+160=200

Number of white shirts sold by shop F=200*3/(3+2)=120

3. Answer: B

Required ratio=240:40=6:1

4. Answer: C

Required difference=280-80=200

5. Answer: A

Required percentage=(240-160)/160*100=80/160*100=50%

Directions (06-10):

Total number of orders delivered in 2001=600*25/100=150

Total number of orders delivered in 2002=600*10/100=60

Total number of orders delivered in 2003=600*15/100=90

Total number of orders delivered in 2004=600*20/100=120

Total number of orders delivered in 2005=600*30/100=180

Year	Total number of orders delivered
2001	150
2002	60
2003	90
2004	120
2005	180

6. Answer: A

Required difference=180-60=120 more

7. Answer: D

Required ratio=150:120=5:4

8. Answer: C

Required percentage=90/150*100=60%

9. Answer: B

Required difference=180-90=90

10. Answer: C

Total number of orders delivered in 2006=60*5/3=100

Required average=(100+120)/2=110

Directions (11-15):

Total number of water bottles sold by Shop L = 500 * 20/100 = 100

Total number of water bottles sold by Shop M = 500 * 24/100 = 120

Total number of water bottles sold by Shop N = 500 * 30/100 = 150

Total number of water bottles sold by Shop O = 500 * 16/100 = 80

Total number of water bottles sold by Shop P = 500 * 10/100 = 50

11. Answer: D

Required difference = 100 – 50 = 50

12. Answer: B

Required ratio = 120:150 = 4:5

13. Answer: A

Required average = (100+150)/2 = 125

14. Answer: D

Required percentage = (120 – 80)/80 * 100 = 50% more

15. Answer: C

Total number of water bottles sold by Shop Q = 80 * 5/2 = 200

Directions (16-20):

Total number of mobile phones produced on Monday = $900 * 60^0/360^0$ = 150

Total number of mobile phones produced on Tuesday = $900 * 40^0/360^0$ = 100

Total number of mobile phones produced on Wednesday = $900 * 100^0/360^0$ = 250

Total number of mobile phones produced on Thursday = $900 * 40^0/360^0$ = 100

Total number of mobile phones produced on Friday = $900 * 120^0/360^0$ = 300

16. Answer: C

Required percentage = 150/250 * 100 = 60%

17. Answer: B

Required ratio = 100:300 = 1:3

18. Answer: D

Total number of mobile phones which are not defective on Wednesday = 250 * 80/100 = 200

19. Answer: A

Required sum = 250 + 100 = 350

20. Answer: D

Required average = (100 + 250 + 100)/3 = 150

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Quantitative Aptitude

Directions (1-5): What value should come in the place of (?) in the following number series?

1) 12, 17, 38, 117, ?, 2351

a) 470

b) 490

c) 510

d) 540

e) 450

2) 8, 17, 31, 50, 74, ?

a) 111

b) 105

c) 107

d) 103

e) 114

3) 3, 12, 40, ?, 381, 1150

a) 120

b) 80

c) 90

d) 125

e) 132

4) 2, 6, 15, 19, 28, ?

a) 32

b) 36

c) 34

d) 38

e) 40

5) 64, 32, ?, 120, 420, 1890

a) 32

b) 80

c) 16

d) 33

e) 48

6) A boat covers a certain distance upstream in 9 hours but takes 5 hours to return downstream to the starting place. If the speed of the boat in still water is 30 km/hr more than the speed of the stream, then find the distance covered by the boat in upstream?

a) 210 km

b) 180 km

c) 270 km

d) 150 km

e) None of these

7) If the ratio of the length of the rectangle and the breadth of the rectangle is 5:6 and the perimeter of the rectangle is 66 m and the side of the square is 5 m less than the length of the rectangle, then find the area of the square.

a) 100 m^2

b) 121 m^2

c) 81 m^2

d) 169 m^2

e) None of these

8) A, B and C together can complete a work in 12 days and A and B together can complete the same work in 24 days and the ratio of the efficiency of B and C is 2:5. A, B and C started the work and worked for 6 days. After 6 days, A and B left the work and C completed the

remaining work. Find the time taken by C to complete the remaining work.

a) 24 days

b) 12 days

c) 8 days

d) 20 days

e) 15 days

9) A vessel contains milk and water in the ratio of 5:4 and 9 litres of mixture is removed from the vessel and replaced with 14 litres of water, then the ratio becomes 9:10. Find the final quantity of water in the vessel.

a) 40 litres

b) 45 litres

c) 50 litres

d) 36 litres

e) None of these

10) If the ratio of the speed of the Car and speed of the truck is 4:5 and the car covers 240 km in 12 hours, then find the total time taken by car and truck each to cover 300 km.

a) 30 hours

b) 27 hours

c) 15 hours

d) 20 hours

e) None of these

Directions (11-15): Study the following information carefully and answer the questions.

The given missing table chart shows the total number of Barbie dolls (pink, blue and orange) sold in four different months i.e. March, April, May and June and also given the percentage of number of pink Barbie dolls sold in four different months and the ratio of number of blue and orange Barbie dolls sold in four different months.

Month	Total number of Barbie dolls sold	% of number of pink Barbie dolls sold	Ratio of number of blue and orange Barbie dolls sold
March	440	25%	-
April	-	60%	3:1
May	350	40%	-
June	280	-	1:1

11) If the ratio of number of blue and orange Barbie dolls sold in March is 1:2, then find the sum of number of blue Barbie dolls sold in March and the number of pink Barbie dolls sold in May?

a) 250

b) 190

c) 200

d) 150

e) None of these

12) If the number of blue and orange Barbie dolls sold in April is 130 less than that of May, then find the total number of Barbie dolls sold in April?

a) 260

b) 240

c) 220

d) 200

e) None of these

13) Out of total number of Barbie dolls sold in June, 25% are pink Barbie dolls sold and then the number of blue Barbie dolls sold in June is what percentage of total number of Barbie dolls sold in May?

a) 70%

b) 10%

c) 30%

d) 50%

e) None of these

14) Find the ratio of number of pink Barbie dolls sold in May to the total number of Barbie dolls sold in June?

a) 5:3

b) 1:2

c) 7:5

d) 9:8

e) None of these

15) If the number of blue and orange Barbie dolls sold in June is 210, then find the difference between the number of blue and orange Barbie dolls sold in March and number of pink Barbie dolls sold in June?

a) 260

b) 340

c) 200

d) 310

e) None of these

16) The total population of City A in 2019 is 3000. The population of city A in 2019 is 20% less than the previous year and the population in 2018 is 20% more than the previous year. Find the total population of City A in 2017.

a) 3200

b) 3350

c) 3000

d) 3125

e) None of these

17) The Marked price of the fridge is 25% more than its Cost price and a discount of 15% is offered and a profit of Rs.750 is obtained. Find the marked price of the A.C, if the ratio between the Cost price of the fridge and the Cost price of the A.C is 2:3 and the A.C is marked 30% above its Cost price.

a) Rs.25000

b) Rs.24500

c) Rs.26000

d) Rs.22000

e) Rs.23400

18) P invests Rs.5000 in Scheme A in Simple interest at 15% per annum for 3 years and Rs.4000 at 20% for 2 years in Compound interest in Scheme B and invests the interest obtained from Scheme A and B in Scheme C at 10% for 4 years in Simple interest. Find the interest obtained from Scheme C.

a) Rs.1604

b) Rs.1650

c) Rs.1635

d) Rs.1680

e) Rs.1662

19) The average number of sold items from Shop A and Shop B together is 260 and the average number of unsold items from Shop A and Shop B is 290 and the ratio of sold items from Shop A and Shop B is 27:25. Find the total number of items in Shop B, if the total number of items in Shop A is 500.

a) 550

b) 450

c) 300

d) 250

e) 600

20) Ratio of the age of A after 4 years and the age of B after 3 years is 8:9 and the present age of C is 25% less than the present age of A. If A is 6 years younger than B, then find the age of C 5 years hence?

a) 36 years

b) 40 years

c) 25 years

d) 32 years

e) None of these

Directions (21-25): Read the following information carefully and answer the questions given below.

The given radar graph shows the percentage distribution of total number of Fictional books and Educational books together available from five different libraries i.e. A, B, C, D and E and the table chart shows the total number of fictional books available in these five libraries.
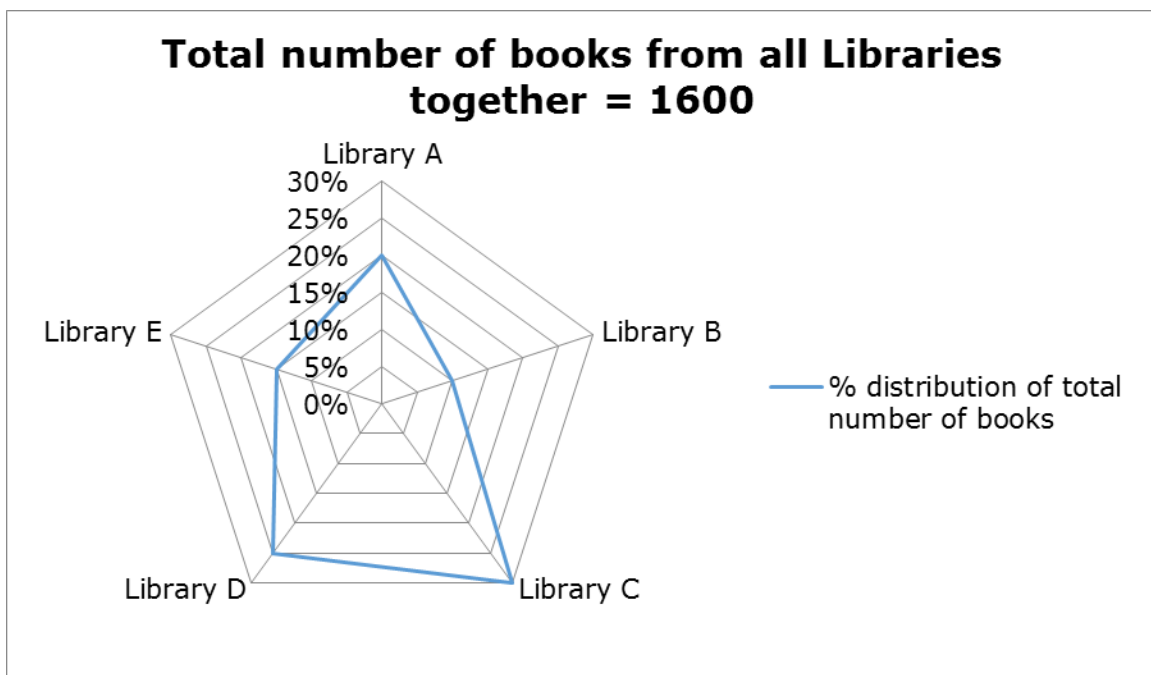
Library	Total number of Fictional books
A	180
B	90
C	230
D	240
E	160

21) Find the ratio of the total number of Educational books in library D and the total number of Fictional books in library A.

a) 18:7

b) 9:8

c) 8:9

d) 8:7

e) None of these

22) The total number of Fictional books sold by B and E is what percentage of the total number of Educational books in C?

a) 100%

b) 75%

c) 50%

d) 125%

e) None of these

23) If 20% and 30% of the Fictional books and Educational books respectively are damaged in A, then find the total number of damaged books.

a) 90

b) 65

c) 95

d) 78

e) None of these

24) Find the sum of the total number of Fictional books in C and the total number of Educational books in E.

a) 325

b) 310

c) 300

d) 285

e) None of these

25) Find the difference between the total number of Educational books in D and the total number of Fictional books in B.

a) 90

b) 85

c) 65

d) 70

e) None of these

Directions (26-30): What approximate value should come in the place of (?) in the following questions?

26) 19.99% of 449 + 24.88% of (199 + ?) = 210.22

a) 190

b) 215

c) 175

d) 280

e) 110

27) $(\sqrt{170} + \sqrt{50}) \div 3.99 + ? = 149.99 \div 2.99$

a) 19

b) 10

c) 16

d) 17

e) 45

28) $15.99^2 - 6.66^2 - ? = 31.89\%$ of 249.99

a) 171

b) 145

c) 127

d) 193

e) 138

29) $499 * 4.12 \div 9.89 - 319.78 \div 3.88 - 8.12^2 = ?$

a) 36

b) 60

c) 72

d) 56

e) 48

30) $(479.89 \div 6.32 \div 1.99) * 5.27 = ?$

a) 200

b) 300

c) 700

d) 500

e) 100

Directions (31-34): Following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give an answer as,

31)

I) $x^2 + 2x - 288 = 0$

II) $y^2 - 28y + 195 = 0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

32)

I) $x^2 + 17x - 630 = 0$

II) $y^2 + 17y - 348 = 0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

33)

I) $15 + x = -56/x$

II) $y^2 + 13y = -36$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

34)

I) $x^2 - 4x - 165 = 0$

II) $y^2 + 25y + 154 = 0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

Directions (35): What value should come in the place of (?) in the following questions.

35) $\sqrt{2500} * 4 - ? * 3 = \sqrt{(427 - 3^3)}$

a) 70

b) 50

c) 80

d) 60

e) 90

<div align="center">

Answer Key with Explanation

</div>

1) Answer: A

12 * 1 + 5 = 17

17 * 2 + 4 = 38

38 * 3 + 3 = 117

117 * 4 + 2 = **470**

470 * 5 + 1 = 2351

2) Answer: D

8 + 9 = 17

17 + 14 = 31

31 + 19 = 50

50 + 24 = 74

74 + 29 = **103**

3) Answer: D

3 * 3 + 3 = 12

12 * 3 + 4 = 40

40 * 3 + 5 = **125**

125 * 3 + 6 = 381

381 * 3 + 7 = 1150

4) Answer: A

$2 + 2^2 = 6$

$6 + 3^2 = 15$

$15 + 2^2 = 19$

$19 + 3^2 = 28$

$28 + 2^2 = $ **32**

5) Answer: E

64*0.5=32

32*1.5=**48**

48*2.5=120

120*3.5=420

420*4.5=1890

6) Answer: C

Speed of the stream=x km/hr

Speed of the boat=(x+30) km/hr

Downstream distance=(x+30+x)*5 km

Upstream distance=(x+30-x)*9 km

(x+30+x)*5=(x+30-x)*9

(2x+30)*5=270

10x=270-150

x=12 km/hr

Speed of the boat=12+30=42 km/hr

Upstream distance=(12+30-12)*9=270 km

7) Answer: A

Length of the rectangle = 5x

Breadth of the rectangle = 6x

2(5x+6x) = 66

x = 3 m

Length of the rectangle = 5*3 = 15 m

Side of the square = 15 – 5 = 10 m

Area of the square = 10 * 10 = 100 m^2

8) Answer: B

1/A + 1/B + 1/C = 1/12

1/A + 1/B = 1/24

1/C = 1/12-1/24 = 1/24

Time taken by C alone to complete the work = 24 days

Time taken by B alone to complete the work = 24 * 5/2 = 60 days

1/A + 1/60 = 1/24

1/A = 1/40

Time taken by A alone to complete the work = 40 days

LCM of 40, 60, 24 = 120

Total work = 120 units

A = 120/40 = 3 units per day

B = 120/60 = 2 units per day

C = 120/24 = 5 units per day

A, B and C work for 6 days

Work completed by A, B and C together = (3+2+5)*6 = 60 units

Remaining work = 120 – 60 = 60 units

Time taken by C to complete the remaining work = 60/ 5 = 12 days

9) Answer: C

Initial quantity of milk = 5x

Initial quantity of water = 4x

(5x – 9*5/9)/(4x – 9*4/9 + 14) = 9/10

(5x – 5)/(4x + 10) = 9/10

x = 10

Initial quantity of water = 4 * 10 = 40 litres

Final quantity of water = 4 * 10 – 4 + 14 = 50 litres

10) Answer: B

Speed of the car = 240/12 = 20 km/hr

Speed of the truck = 20*5/4 = 25 km/hr

Time taken by car to cover 300 km = 300/20 = 15 hours

Time taken by truck to cover 300 km = 300/25 = 12 hours

Total time taken = 15+12 = 27 hours

Directions (11-15):

Total number of Barbie dolls sold in March=440

Number of Pink Barbie dolls sold in March=440*25/100=110

Number of blue and orange Barbie dolls sold in March=440-110=330

Total number of Barbie dolls sold in May=350

Number of Pink Barbie dolls sold in May=350*40/100=140

Number of blue and orange Barbie dolls sold in May=350-140=210

11) Answer: A

Number of blue Barbie dolls sold in March=330*1/(1+2)=110

Number of pink Barbie dolls sold in May=140

Required sum=110+140=250

12) Answer: D

Number of blue and orange Barbie dolls sold in May=350-140=210

Number of blue and orange Barbie dolls sold in April=210-130=80

Total number of Barbie dolls sold in April=80*100/40=200

13) Answer: C

Number of pink Barbie dolls sold in June=280*25/100=70

Number of blue and orange Barbie dolls sold in June=280-70=210

Number of blue Barbie dolls sold in June=210*1/(1+1)=105

Required percentage=105/350*100=30%

14) Answer: B

Required ratio=140:280=1:2

15) Answer: A

Number of pink Barbie dolls sold in June=280-210=70

Number of blue and orange Barbie dolls sold in March=330

Required difference=330-70=260

16) Answer: D

Total population of City A in 2017 = 3000 * 100/80 * 100/120 =3125

17) Answer: E

Cost price of the fridge = 100x

Marked price of the fridge = 125x

Selling price of the fridge = 106.25x

106.25x – 100x = 750

6.25x = 750

x = 120

Cost price of the fridge = Rs.12000

Cost price of the A.C = 12000 * 3/2 = Rs.18000

Marked price of the A.C = 18000 * 130/100 = Rs.23400

18) Answer: A

Interest obtained from Scheme A = 5000 * 15 * 3/100 = Rs.2250

Interest obtained from Scheme B = 4000 * $(1+20/100)^2$ – 4000 = 4000 * $(120/100)^2$ = Rs.1760

Total investment in Scheme C = 2250+1760 = Rs.4010

Interest obtained from Scheme C = 4010 * 10 * 4/100 = Rs.1604

19) Answer: E

Total number of sold items from Shop A and Shop B = 260 * 2 = 520

Total number of sold items from Shop A = 520 * 27/52 = 270

Total number of sold items from Shop B = 520 * 25/52 = 250

Total number of unsold items in Shop A = 500 – 270 = 230

Total number of unsold items in Shop B = (290*2) – 230 = 350

Total number of items in Shop B = 250 + 350 = 600

20) Answer: D

B-A=6

The present age of A=(8x-4)

The present age of B=(9x-3)

(9x-3)-(8x-4)=6

x+1=6

x=5

The present age of A=8*5-4=36 years

The present age of C=36*75/100=27 years

After 5 years, the age of C=27+5=32 years

Directions (21-25):

Library A:

Total number of books = 1600 * 20/100 = 320

Total number of Fictional books = 180

Total number of Educational books = 320 - 180 = 140

Library B:

Total number of books = 1600 * 10/100 = 160

Total number of Fictional books = 90

Total number of Educational books = 160 - 90 = 70

Library C:

Total number of books = 1600 * 30/100 = 480

Total number of Fictional books = 230

Total number of Educational books = 480 - 230 = 250

Library D:

Total number of books = 1600 * 25/100 = 400

Total number of Fictional books = 240

Total number of Educational books = 400 - 240 = 160

Library E:

Total number of books = 1600 * 15/100 = 240

Total number of Fictional books = 160

Total number of Educational books = 240 - 160 = 80

Library	Total number of books	Total number of Fictional books	Total number of Educational books
A	320	180	140
B	160	90	70
C	480	230	250
D	400	240	160
E	240	160	80

21) Answer: C

Required ratio = 160:180 = 8:9

22) Answer: A

Required percentage = (90 + 160)/250 * 100 = 100%

23) Answer: D

Fictional books that are damaged in A = 180 * 20/100 = 36

Educational books that are damaged in A = 140 * 30/100 = 42

Required total = 36 + 42 = 78

24) Answer: B

Required sum = 230 + 80 = 310

25) Answer: D

Required difference = 160 - 90 = 70

26) Answer: D

19.99% of 449 + 24.88% of (199 + ?) = 210.22

20 * 450 ÷ 100 + 25 * (200 + ?) ÷ 100 = 210

90 + (200 + ?) ÷ 4 = 210

(200 + ?) = 120 * 4

200 + ? = 480

? = 280

27) Answer: E

($\sqrt{170}$ + $\sqrt{50}$) ÷ 3.99 + ? = 149.99 ÷ 2.99

($\sqrt{169}$ + $\sqrt{49}$) ÷ 4 + ? = 150 ÷ 3

(13 + 7) ÷ 4 + ? = 50

20 ÷ 4 + ? = 50

? = 50 – 5

? = 45

28) Answer: C

$15.99^2 – 6.66^2$ - ?= 31.89% of 249.99

$16^2 – 7^2$ - ? = 32 * 250/100

256 – 49 - ? = 80

207 - ? = 80

? = 127

29) Answer: D

499 * 4.12 ÷ 9.89 - 319. 78 ÷ 3.88 – 8. 12^2 = ?

500 * 4 ÷ 10 - 320 ÷ 4 – 8^2 = ?

200 - 80 – 64 = ?

? = 56

30) Answer: A

(479.89 ÷ 6.32 ÷ 1.99) * 5.27 = ?

(480 ÷ 6 ÷ 2) * 5 = ?

80 ÷ 2 * 5 = ?

? = 200

31) Answer: C

$x^2 + 2x – 288 = 0$

$x^2 + 18x – 16x – 288 = 0$

x(x + 18) – 16(x + 18) = 0

x = 16, -18

$y^2 – 28y + 195 = 0$

$y^2 – 13y – 15y + 195 = 0$

y(y – 13) – 15(y – 13) = 0

y = 13, 15

Relationship between x and y cannot be established.

32) Answer: C

$x^2 + 17x – 630 = 0$

$x^2 + 35x – 18x – 630 = 0$

$x(x + 35) – 18(x + 35) = 0$

$x = 18, -35$

$y^2 + 17y – 348 = 0$

$y^2 + 29y – 12y – 348 = 0$

$y(y + 29) – 12(y + 29) = 0$

$y = 12, -29$

Relationship between x and y cannot be established.

33) Answer: C

$15 + x = -56/x$

$15x + x^2 + 56 = 0$

$x^2 + 7x + 8x + 56 = 0$

$x(x + 7) + 8(x + 7) = 0$

$x = -7, -8$

$y^2 + 13y = - 36$

$y^2 + 13y + 36 = 0$

$y^2 + 9y + 4y + 36 = 0$

$y(y + 9) + 4(y + 9) = 0$

$y = -9, -4$

Relationship between x and y cannot be established.

34) Answer: B

$x^2 - 4x – 165 = 0$

$x^2 – 15x + 11x – 165 = 0$

$x(x – 15) + 11(x – 15) = 0$

$x = +15, -11$

$y^2 + 25y + 154 = 0$

$y^2 + 11y + 14y + 154 = 0$

$y(y + 11) + 14(y + 11) = 0$

$y = -11, -14$

Hence, $x \geq y$

35) Answer: D

$\sqrt{2500} * 4 - ? * 3 = \sqrt{(427-3^3)}$

$50 * 4 = ? * 3 + \sqrt{(427-27)}$

$200 - \sqrt{400} = ? * 3$

$? * 3 = 200 - 20$

$? * 3 = 180$

$? = 60$

Quantitative Aptitude

SBI CLERK PRELIMS QUANTITATIVE APTITUDE MEMORY BASED PAPER-2021

Directions (01-03): Find out the wrong number in the following number series.

1) 78, 69, 82, 65, 86, 59

a) 78

b) 69

c) 65

d) 86

e) 59

2) 196, 198, 194, 202, 186, 212

a) 196

b) 198

c) 202

d) 186

e) 212

3) 64, 32, 96, 120, 420, 1890

a) 64

b) 96

c) 120

d) 420

e) 1890

Directions (04-08): What value should come in the place of (?) in the following questions?

4) $(\sqrt{(72/4+3^3+124)})*5=?+25$

a) 70

b) 40

c) 90

d) 50

e) 30

5) $4*?=25/8*64\%$ of $1200-800$

a) 100

b) 280

c) 320

d) 400

e) 640

6) $?+16^2-77=156/4+25*12$

a) 150

b) 140

c) 110

d) 120

e) 160

7) ?% of $500+15*8-112=332-12^2$

a) 22

b) 40

c) 36

d) 14

e) 25

8) 20% of $550+32/8*5=26\%$ of $(240+?)$

a) 260

b) 140

c) 320

d) 180

e) 220

9) The marked price of a chair is $x\%$ more than its selling price. If the shopkeeper allows a 25% discount on its marked price and gets a profit of 12.5% and the cost price of the chair is Rs.480, then find the value of x?

a) 50

b) 15

c) 40

d) 33.33

e) None of these

10) The average weight of 2 students and a teacher is 52 kg. If the total weight of two students is 4 kg more than the weight of the teacher, then find the weight of the teacher?

a) 64 kg

b) 76 kg

c) 52 kg

d) 80 kg

e) None of these

11) A alone can complete 60% of the work in 18 days and the ratio of efficiency of A and B is 4:3. If the efficiency of C is 25% more than that of A, then in how many days A, B and C together complete half of the work?

a) 5 days

b) 9 days

c) 6 days

d) 7 days

e) None of these

Directions (12-13): Following questions have two quantities as Quantity I and Quantity II. You have to determine the relationship between them and give an answer as,

12)

Quantity I: The length of the train is 360 m and the train crosses a standing man in 27 seconds. Then find the speed of the train (in Kmph)?

Quantity II: Train A starts from point P to Q at 8 AM and train B starts from point Q to P at 8 AM. Both trains meet each other at 11 AM and the speed of train A is 88 km/hr, then find the speed of train B, if the distance between points P to Q is 450 km?

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II or Relation cannot be established

13)

Quantity I: The ratio of the age of A, 7 years ago and B, 3 years hence is 3:5 and the ratio of the age of B and C is 4:5. If the average present age of A and B is 30 years, then find the age of C?

Quantity II: Ratio of the present age of A and B is 8:5. If the difference between the age of A and B is 18 years, then find the age of B?

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II or Relation cannot be established

Directions (14-18): What value should come in the place of (?) in the following questions?

14) 45% of 300 + 30% of 150 + ? = 16 * 30

a) 280

b) 300

c) 320

d) 315

e) 330

15) $5/17 * 51/15 * 720 = ? + 23^2$

a) 180

b) 170

c) 165

d) 151

e) 191

16) $3^{x-2} = (3^4 * 9^2)/(27^3 * 81)$

a) -3

b) 4

c) 8

d) 1

e) 5

17) $27^2 + \sqrt{1089} - \sqrt{1156} - ? = 24^2$

a) 162

b) 135

c) 172

d) 152

e) 125

18) 2/7 * 84 - 5/9 * 72 + 52% of 250 = ?

a) 120

b) 134

c) 114

d) 154

e) 160

Directions (19-20): Find out the wrong number in the following number series.

19) 4, 3, 4, 9, 32, 165

a) 4

b) 3

c) 165

d) 9

e) 32

20) 25, 40, 45, 70, 105, 150

a) 45

b) 25

c) 70

d) 105

e) 40

21) A invests Rs.x in Simple interest for 2 years at 15% per annum and invests the same sum in Simple interest for 3 years at 20% per annum and the difference between the interest obtained is Rs.3600. Find the interest earned by A in Compound interest for 2 years at 10% interest per annum investing Rs.x+2000.

a) Rs.2940

b) Rs.3100

c) Rs.2650

d) Rs.2700

e) Rs.2840

22) The speed of the Boat is 4 times the speed of the current and the difference between the time taken by Boat to cover 360km in both upstream and downstream is 8 hours. Find the time taken by the Boat to cover 180 km downstream and 540km upstream.

a) 30 hours

b) 24 hours

c) 20 hours

d) 36 hours

e) 28 hours

23) An alloy contains gold and silver in the ratio of 8:7 and the same alloy contains silver and copper in the ratio of 7:5. 40 mg of mixture is removed and 10 mg of silver is added to the mixture and the ratio of silver and copper becomes 12:5. Find the initial quantity of all the elements.

a) 80 mg

b) 90 mg

c) 85 mg

d) 110 mg

e) 100 mg

24) The difference between the perimeter of the square and the perimeter of the rectangle is 50m and the ratio of the side of the square and the length of the rectangle is 4:7 and the breadth of the rectangle is 5m less than the length of the rectangle. Find the area of the rectangle.

a) 1000 m^2

b) 1050 m^2

c) 1200 m^2

d) 900 m^2

e) 750 m^2

25) P and Q entered into a partnership with an investment of Rs.x and Rs.x+2000. If at the end of 2 years, the profit obtained by P is Rs.1800 out of the total profit of Rs.4050, then find the total investment of P and Q together.

a) Rs.18000

b) Rs.15000

c) Rs.12000

d) Rs.14000

e) Rs.10000

Directions (26-30): Study the following information carefully and answer the questions given below.

The given bar graph shows the total number of flats and the number of unoccupied flats in five different building.
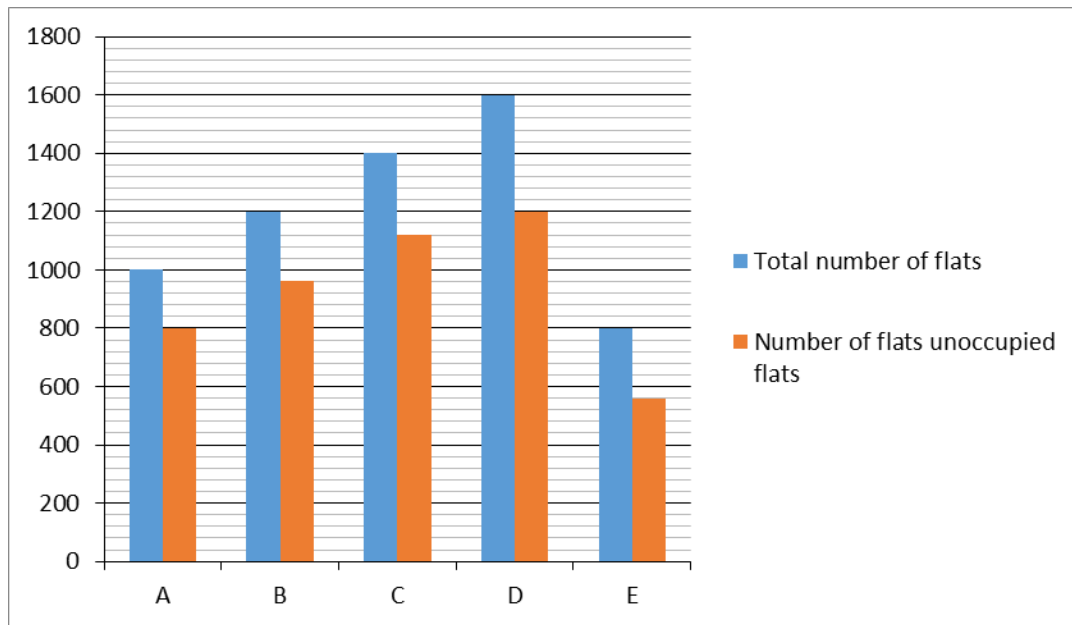
26) If the number of persons in each occupied flat in building A and B is 3 and 2 respectively, then find the total number of persons in building A and B?

a) 1020
b) 1040
c) 1060
d) 1080
e) 1100

27) What is the difference between the number of occupied flats in building C and D together and the total number of flats in building B?

a) 520
b) 540
c) 560
d) 600
e) 580

28) What is the ratio of the number of unoccupied flat in building A to the total number of occupied flat in building B and E together?

a) 5:3
b) 39:23
c) 39:22
d) 20:11
e) None of these

29) The number of unoccupied flat in building D is what percent of the total number of flats in building A and E together?

a) 58.81%
b) 60.60%
c) 61.16%
d) 64.44%
e) 66.67%

30) The number of occupied flats in building F is 40% more than that of A and the total number of flats in building F is 120% more than the number

of occupied flat in building C. Find the number of unoccupied flat in building F

a) 294

b) 336

c) 296

d) 290

e) 298

Direction (31-35): Read the following information carefully and answer the questions given below.

There are three classes A, B and C and each class has three different section x, y, and z.

Class A: Total number of students is 360 and the number of students in section x is one-third of the total number of students. The ratio of the ratio of the number of students in y and z is 2:1

Class B: The ratio of the number of students in x and y is 8:5. The number of students in z is 50% of the total number of students in x and y. The total number of students is 390.

Class C: Total number of students in B and C is 3:2. The number of students in y in C is 20% more than the number of students in y in B. Total number of students in x is 30% of the total number of students in C.

31) What is the ratio of the number of students in section x in B to C?

a) 80:39

b) 27:13

c) 40:19

d) 54:35

e) None of these

32) Find the total number of students in y in all the classes together.

a) 360

b) 370

c) 380

d) 390

e) 350

33) What is the average number of students in section z in A and C?

a) 71

b) 73

c) 69

d) 67

e) 70

34) Find the difference between the total number of students in section y in B and C together and the total number of students in A.

a) 120

b) 130

c) 150

d) 140

e) 160

35) The number of students in section z in B is what percent of the total number of students in C?

a) 45%

b) 50%

c) 55%

d) 40%

e) 60%

Answer Key with Explanation
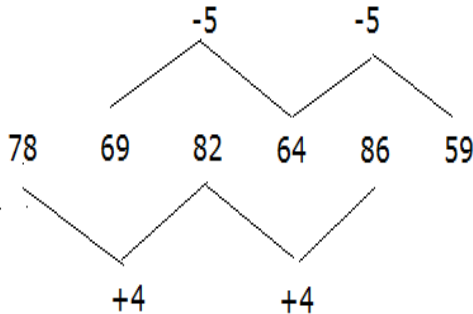
1) Answer: C

2) Answer: E

$196+2^1=198$

$198-2^2=194$

$194+2^3=202$

$202-2^4=186$

$186+2^5=\mathbf{218}$

3) Answer: B

$64*0.5=32$

$32*1.5=\mathbf{48}$

$48*2.5=120$

$120*3.5=420$

$420*4.5=1890$

4) Answer: B

$\sqrt{(72/4+3^3+124)}*5=?+25$

$\sqrt{(18+27+124)}*5-25=?$

$?=\sqrt{169}*5-25$

$?=13*5-25$

$?=40$

5) Answer: D

$4*?=25/8*64\%$ of $1200-800$

$4*?=25/8*64*1200/100-800$

$4*?=1600$

$?=400$

6) Answer: E

$?+16^2-77=156/4+25*12$

$?+256-77=39+300$

$?=160$

7) Answer: C

$?\%$ of $500+15*8-112=332-12^2$

$?*500/100+120-112=332-144$

$5*?=180$

$?=36$

8) Answer: A

20% of $550+32/8*5=26\%$ of $(240+?)$

$110+20=26*(240+?)/100$

$130*100/26=240+?$

$500=240+?$

$?=260$

9) Answer: D

CP of the chair=Rs.480

SP of the chair=480*112.5/100=480*9/8=Rs.540

MP of the chair=540*100/75=Rs.720

$[(720-540)/540]*100=x$

$x=33.33$

10) Answer: B

Let the total weight of 2 students=x

And the weight of the teacher=y

The total weight of 2 students and the teacher=52*3=156 kg

x+y=156

x-y=4

2x=160

x=80 kg

y=156-80=76 kg

11) Answer: A

A alone complete the whole work=18*100/60=30 days

Ratio of time taken by A and B to complete the work=3:4

B alone complete the whole work=30*4/3=40 days

Ratio of the efficiency of B and C= 3:5

Ratio of the time taken by B and C=5:3

C alone complete the whole work=40*3/5=24 days

Required

answer=(1/30+1/40+1/24)*2=(4+3+5)*2/120=12*2/120=1/5

12) Answer: C

From quantity I,

The speed of the train=y

360=y*5/18*27

y=48 km/hr

From quantity II,

Time is taken from point P to Q=11-8=3 hours

The speed of the train B=x km/hr

450/(88+x)=3

450/3=88+x

x+88=150

x=62 km/hr

Quantity II > Quantity I

13) Answer: A

From quantity I,

7 years ago, the age of A=3x

3 years hence, the age of B=5x

(3x+7)+(5x-3)=30*2

8x=56

x=7 years

The present age of B=5*7-3=32 years

The present age of C=32*5/4=40 years

From quantity II,

The present age of A=8x

The present age of B=5x

8x-5x=18

x=6

The present age of B=5*6=30 years

Quantity I > Quantity II

14) Answer: B

45% of 300 + 30% of 150 + ? = 16 * 30

45/100 * 300 + 30/100 * 150 + ? = 480

135 + 45 + ? = 480

? = 300

15) Answer: E

5/17 * 51/15 * 720 = ? + 23^2

720 = ? + 529

? = 191

16) Answer: A

$3^{x-2} = 3^4 * 9^2 \div (27^3 * 81)$

$3^{x-2} = 3^4 * (3^2)^2 \div ((3^3)^3 * 3^4)$

$3^{x-2} = 3^{-5}$

x - 2 = -5

x = -3

17) Answer: D

$27^2 + \sqrt{1089} - \sqrt{1156} - ? = 24^2$

729 + 33 - 34 - ? = 576

? = 152

18) Answer: C

2/7 * 84 - 5/9 * 72 + 52% of 250 = ?

2/7 * 84 - 5/9 * 72 + 52/100 *250 = ?

24 - 40 + 130 = ?

? = 114

19) Answer: C

4 * 1 – 1 = 3

3 * 2 – 2 = 4

4 * 3 – 3 = 9

9 * 4 – 4 = 32

32 * 5 – 5 = **155**

20) Answer: E
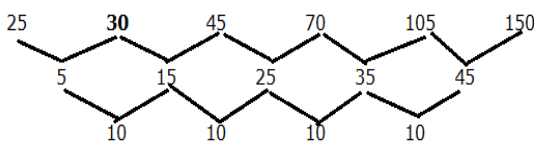
21) Answer: A

(x * 3 * 20)/100 - (x * 2 *15)/100 = 3600

x = Rs.12000

Interest earned in Compound interest = 14000 * $(1+10/100)^2$ - 14000

= 14000 * $(110/100)^2$ - 14000 = Rs.2940

22) Answer: D

Speed of the current = x km/hr

Speed of the Boat = 4x km/hr

360/(4x-x) - 360/(4x+x) = 8

360/3x - 360/5x = 8

x = 6 km/hr

Speed of the current = 6 km/hr

Speed of the Boat = 24 km/hr

Total time taken = 180/(24+6) + 540/(24-6) = 36 hours

23) Answer: A

Ratio of Gold, Silver and Copper = 8: 7: 5

Final quantity of gold = 8x-40*8/20 = 8x - 16

Final quantity of silver = 7x – 40*7/20 + 10 = 7x-4

Final quantity of copper = 5x – 40*5/20 = 5x – 10

(7x – 4)/(5x – 10) = 12/5

x = 4 mg

Initial quantity = 8x+7x+5x = 20x = 80 mg

24) Answer: B

Side of the square = 4x

Length of the rectangle = 7x

Breadth of the rectangle = 7x – 5

2 (7x + 7x – 5) – 4 * 4x = 50

28x – 10 – 16x = 50

12x = 60

x = 5

Length of the rectangle = 7*5 = 35 m

Breadth of the rectangle = 35 – 5 = 30 m

Area of the rectangle = 35 * 30 = 1050 m^2

25) Answer: A

Profit obtained by P = Rs.1800

Profit obtained by Q = 4050 – 1800 = Rs.2250

(x * 2)/((x+2000) * 2) = 1800/2250

x / (x +2000) = 4/5

x = 8000

Investment of P = Rs.8000

Investment of Q = Rs.10000

Total investment = 8000+10000 = Rs.18000

26) Answer: D

Required total=(3*(1000-800))+(2*(1200-960))

=600+480

=1080

27) Answer: A

Occupied flats in C=1400-1120=280

Number of occupied flats in D=1600-1200=400

Required difference=1200-(280+400)=520

28) Answer: A

Required ratio=800: ((800-560)+(1200-960))

=800:480

=5:3

29) Answer: E

Required percentage =1200/(800+1000)*100

=66.67%

30) Answer: B

Total number of flats in F=220/100*(1400-1120)=616

Number of occupied flats in F=140/100*(1000-800)=280

Required total=616-280=336

Directions (31-35):

Class A:

Total = 360

x = 1/3 * 360 = 120

Total number of students in y and z = 360 – 120 = 240

y = 240 * 2/3 = 160

z = 240 * 1/3 = 80

Class B:

Total = 390

z = 50/100 * (8x + 5x) = 6.5x

x = 8/(8+5+6.5) * 390 = 160

y = 5/8 * 160 = 100

z = 6.5/8 * 160 = 130

Class C:

Total = 2/3 * 390 = 260

x = 260 * 30/100 = 78

y = 120/100 * 100 = 120

z = 260 – 78 = 62

31) Answer: A

Required ratio = 160:78 = 80:39

32) Answer: C

Required total = 120 + 100 + 160 = 380

33) Answer: A

Required average = (62 + 80)/2 = 71

34) Answer: D

Difference = 360 – (100 + 120) = 140

35) Answer: B

Required % = 130/260 * 100 = 50%

SBI CLERK PRELIMS QUANTITATIVE APTITUDE MEMORY BASED PAPER-2020

Directions (01-05): What value should come in the place of (?) in the following number series?

1) 82, 86, 95, 120, ?, 290

a) 144

b) 172

c) 156

d) 132

e) 169

2) ?, 24, 36, 90, 315, 1417.5

a) 36

b) 48

c) 12

d) 30

e) 24

3) 315, 330, 348, 369, ?, 420

a) 394

b) 396

c) 393

d) 392

e) 395

4) 8, 7, 12, 33, 128, ?

a) 635

b) 286

c) 510

d) 362

e) 427

5) 95, 120, ?, 210, 295, 420

a) 155

b) 175

c) 145

d) 195

e) 135

Directions (06-10): The following questions contain two equations as I and II. You have to solve both the equations and determine the relationship between them and give the answer as,

6)

I) $3x^2+20x+32=0$

II) $y^2+7y-120=0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

7)

I) $8x^2-x-30=0$

II) $y^2-23y+112=0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

8)

I) $x^2-7x-330=0$

II) $\sqrt{(y+21)}=2$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

9)

I) $x^2+11x+28=0$

II) $y^2-11y-60=0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

10)

I) $x^2-15x+56=0$

II) $5y^2+2y-16=0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

Directions (11-20): What value should come in the place of (?) in the following questions?

11) (25% of ?+1500)/3=600

a) 1000

b) 900

c) 1200

d) 500

e) 700

12) 5(1/4)+5/8-?/5=1/4-3/8

a) 60

b) 20

c) 50

d) 70

e) 30

13) $(\sqrt{324}-\sqrt[3]{343})*6=16^2-?$

a) 110

b) 190

c) 150

d) 130

e) 140

14) ?% of 750+36% of 500-120=360

a) 40

b) 25

c) 10

d) 35

e) 50

15) (15*4/?)*25+60=210

a) 8

b) 10

c) 5

d) 9

e) 15

16) 528/6+4*?-145=1015

a) 175

b) 221

c) 246

d) 268

e) 194

17) 32% of 250+?-184=20% of 450

a) 148

b) 112

c) 194

d) 156

e) 131

18) $12^2+243*5/3-?=\sqrt{441}+150$

a) 332

b) 406

c) 254

d) 192

e) 378

19) $(148+12*4+380)/4=?^2$

a) 16

b) 10

c) 14

d) 18

e) 12

20) 7*?+216/3-152=520/4

a) 30

b) 42

c) 25

d) 18

e) 55

21) The area of the square is 192 cm² more than that of a rectangle. If the Ratio of the length and breadth of the rectangle is 3:2 and the perimeter of the square is 96 cm, then find the perimeter of the rectangle?

a) 90 cm

b) 150 cm

c) 80 cm

d) 110 cm

e) None o these

22) The ratio of age of A and B is 5:3 and the present age of C is 20% more than that of A. If the age of C is 18 years more than the average age of A and B, then find the sum of the age of A, B and C?

a) 126 years

b) 115 years

c) 144 years

d) 153 years

e) None of these

23) The ratio of the marked price and cost price of a table is 3:2. If the shopkeeper offers a discount 25% on its marked price and the cost

price of the table is Rs.1440, then find the profit earned on the table?

a) Rs.320

b) Rs.180

c) Rs.400

d) Rs.520

e) None of these

24) The time taken by the boat to cover 220 km downstream is equal to the time taken by the boat to cover 140 upstream. If the speed of the current is 8 km/hr, then find the speed of the boat in still water?

a) 62 km/hr

b) 40 km/hr

c) 36 km/hr

d) 52 km/hr

e) None of these

25) A and B started a business with an investment of Rs.5600 and Rs.4800 respectively. After 4 months, C joined the business with the initial investment of Rs.P. At the end of the year, the profit share of A is Rs.3500 out of the total profit of Rs.9500, then find the value of P?

a) 6400

b) 9000

c) 5600

d) 7200

e) None of these

26) Kumar invests a certain amount in two schemes A and B in the ratio of 11:15. Scheme A offers R% per annum in simple interest for 3

years and scheme B offers 20% per annum in compound interest for 2 years. If the interest received from both schemes are equal and then find the value of R?

a) 25

b) 20

c) 15

d) 32

e) None of these

27) A vessel contains a mixture of milk and water in the ratio of 4:1. If 30 liters of mixture is taken out and replaced by water, then the quantity of milk and water becomes 16:9. Find the initial quantity of mixture?

a) 150 liters

b) 120 liters

c) 100 liters

d) 180 liters

e) None of these

28) Ratio of the total number of people in village A and B is 5:4 and the number of males in village A is 50% more than that of females. Ratio of the number of males in villages A and B is 9:8. If the number of females in village B is 200, then find the total number of people in village A?

a) 1050

b) 600

c) 900

d) 750

e) None of these

29) A alone can do a piece of work in x days and B alone can complete the work in (x+10) days. If A and B together can complete the whole work in 12 days, then find the value of x?

a) 15

b) 8

c) 20

d) 14

e) None of these

30) Average weight of 5 students is 64 kg. If the average weight of the first two students is 56 kg and the average weight of the last two students is 62 kg, then find the weight of the third student?

a) 82 kg

b) 92 kg

c) 60 kg

d) 84 kg

e) 75 kg

Directions (31-35): Study the following information carefully and answer the questions given below.

The given bar graph shows the total number of fiction and comic books in five different stores – A, B, C, D and E.
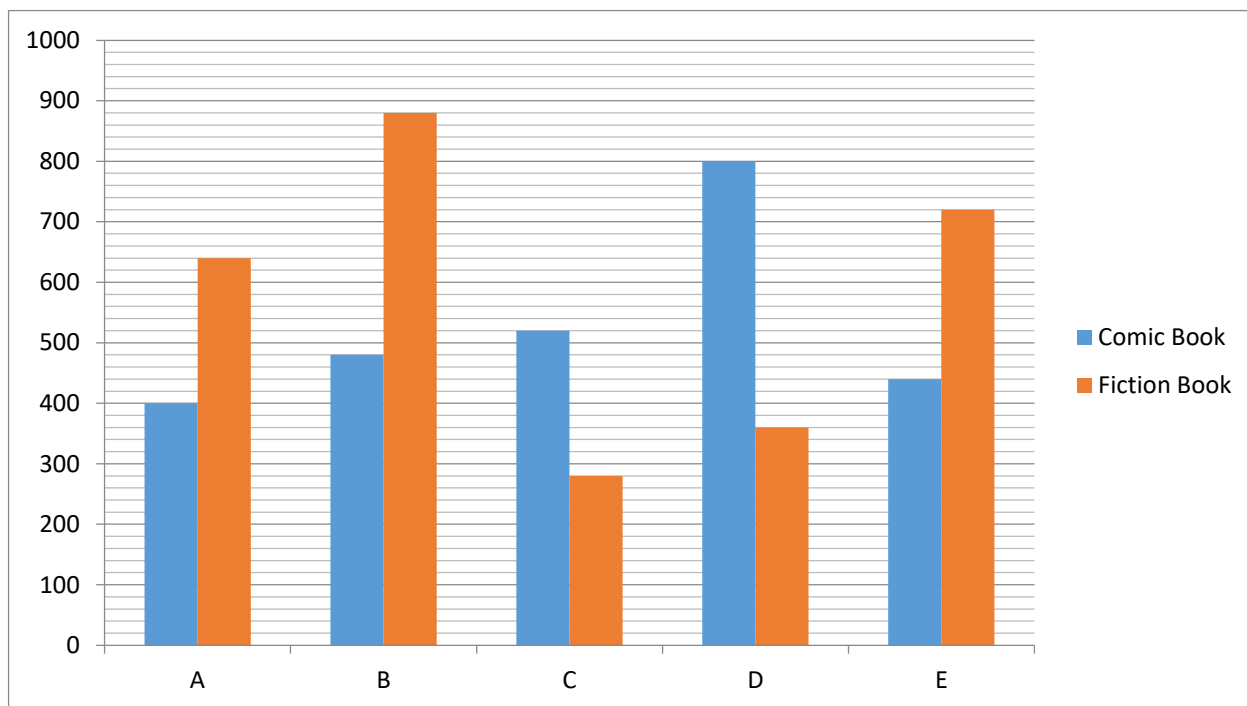
31) If the rate of each Comic book in A and B is Rs.30 and Rs.20 respectively, then find the total revenue collection of comic books in store A and B?

a) Rs.22000

b) Rs.21800

c) Rs.21200

d) Rs.21600

e) Rs.20000

32) What is the difference between the total number of Comic books in C and D together and the total number of books in B?

a) 20

b) 40

c) 60

d) 70

e) 80

33) What is the ratio of the number of Fiction books in A to the total number of Comic books in B and E together?

a) 16:23

b) 13:23

c) 15:22

d) 18:11

e) None of these

34) The number of Fiction books in D is approximately what percent of the total number of books in A and E together?

a) 18%

b) 20%

c) 16%

d) 14%

e) 12%

35) The number of Comic books in F is 40% more than the number of fiction books in A and the total number of books in F is 120% more than the number of Comic books in C. Find the number of Fiction books in F?

a) 254

b) 248

c) 256

d) 264

e) 268

Answer Key with Explanation

1) Answer: E

$82+2^2=86$

$86+3^2=95$

$95+5^2=120$

$120+7^2=$**169**

$169+11^2=290$

2) Answer: B

48$*0.5=24$

$24*1.5=36$

$36*2.5=90$

$90*3.5=315$

$315*4.5=1417.5$

3) Answer: C

$315+15=330$

$330+18=348$

$348+21=369$

$369+24=$**393**

$393+27=420$

4) Answer: A

8*1-1=7

7*2-2=12

12*3-3=33

33*4-4=128

128*5-5=**635**

5) Answer: A

95   120   **155**   210   295   420

   25   35   55   85   125

     10   20   30   40

6) Answer: C

$3x^2+20x+32=0$

$3x^2+12x+8x+32=0$

$3x(x+4)+8(x+4)=0$

x=-4, -8/3

x=-4, -2.67

$y^2+7y-120=0$

$y^2+15y-8y-120=0$

y(y+15)-8(y+15)=0

y=-15, +8

Relationship can't be determined.

7) Answer: D

$8x^2-x-30=0$

$8x^2-16x+15x-30=0$

8x(x-2)+15(x-2)=0

x=+2, -15/8

x=+2, -1.875

$y^2-23y+112=0$

$y^2-7y-16y+112=0$

y(y-7)-16(y-7)=0

y=+7, +16

Hence, x < y

8) Answer: A

$x^2-7x-330=0$

$x^2-22x+15x-330=0$

x(x-22)+15(x-22)=0

x=+22, -15

$\sqrt{(y+21)}=2$

y+21=4

y=-17

Hence, x > y

9) Answer: E

$x^2+11x+28=0$

$x^2+4x+7x+28=0$

x(x+4)+7(x+4)=0

x=-4, -7

$y^2-11y-60=0$

$y^2-15y+4y-60=0$

y(y-15)+4(y-15)=0

y=+15, -4

Hence, x ≤ y

10) Answer: A

$x^2-15x+56=0$

$x^2-8x-7x+56=0$

x(x-8)-7(x-8)=0

x=+8, +7

$5y^2+2y-16=0$

$5y^2+10y-8y-16=0$

$5y(y+2)-8(y+2)=0$

$y=-2, +8/5$

$y=-2, +1.6$

Hence, $x > y$

11) Answer: C

(25% of ?+1500)/3=600

25/100*?+1500=1800

?/4=300

?=1200

12) Answer: E

5(1/4)+5/8-?/5=1/4-3/8

21/4+5/8-?/5=1/4-3/8

?/5=42/8+5/8-2/8+3/8

?/5=48/8

?=6*5

?=30

13) Answer: B

$(\sqrt{324}-\sqrt[3]{343})*6=16^2-?$

(18-7)*6=256-?

11*6=256-?

?=256-66

?=190

14) Answer: A

?% of 750+36% of 500-120=360

?*750/100+36*500/100-120=360

?*15/2+180-120=360

?*15/2=300

?=300*2/15

?=40

15) Answer: B

(15*4/?)*25+60=210

(15*4/?)*25=150

60/?=6

?=60/6

?=10

16) Answer: D

528/6+4*?-145=1015

88+4*?-145=1015

4?=1015+145-88

?=1072/4

?=268

17) Answer: C

32% of 250+?-184=20% of 450

80+?-184=90

?=90+184-80

?=194

18) Answer: E

$12^2+243*5/3-?=\sqrt{441}+150$

144+405-21-150=?

?=378

19) Answer: E

$(148+12*4+380)/4=?^2$

$(148+48+380)/4=?^2$

$576/4=?^2$

$?^2=144$

?=12

20) Answer: A

$7*?+216/3-152=520/4$

$7*?=130+152-72$

$7*?=210$

$?=30$

21) Answer: C

The side of the square=96/4=24 cm

The area of the square=24*24=576 cm^2

The area of the rectangle=576-192=384 cm^2

The length of the rectangle=3x

The breadth of the rectangle=2x

$3x*2x=384$

$x^2=64$

$x=8$

The length of the rectangle= 3*8=24 cm

The breadth of the rectangle= 2*8=16 cm

The perimeter of the rectangle=2*(24+16)=80 cm

22) Answer: A

Let the age of A=5x

And the age of B=3x

The age of C=5x*120/100=6x

$6x-(5x+3x)/2=18$

$6x-4x=18$

$x=9$

The sum of the age of A, B and C=(5+3+6)*9=14*9=126 years

23) Answer: B

CP of the table=Rs.1440

MP of the table=1440*3/2=Rs.2160

Required profit=2160*75/100-1440=Rs.180

24) Answer: C

The speed of the stream=8 km/hr

The speed of the boat=x km/hr

$220/(x+8)=140/(x-8)$

$220x-1760=140x+1120$

$80x=2880$

$x=36$

25) Answer: D

Ratio of profit share of A, B and C=5600*12: 4800*12: P*8

=8400:7200:P

$8400/(7200+P)=3500/6000$

$8400/(7200+P)=7/12$

$8400*12/7=(7200+P)$

$P=14400-7200$

$P=7200$

26) Answer: B

$11x*R*3/100=[15x*(1+20/100)^2-15x]$

$33x*R/100=21.6x-15x$

$33R/100=6.6$

$R=660/33$

$R=20$

27) Answer: A

Milk in initial mixture=4x

Water in initial mixture=1x

Milk and water in the initial mixture=4x+1x=5x

$(4x-30*4/5)/(1x-30*1/5+30)=16/9$

$(4x-24)*9=(1x+24)*16$

$36x-216=16x+384$

20x=600

x=30

The quantity of initial mixture =5*30=150 liters

28) Answer: D

Let the total number of people in village A=5x

And the total number of people in village B=4x

The number of males in village A=5x*3/(3+2)=3x

The number of females in village A=5x-3x=2x

The number of males in village B=3x*8/9=8x/3

The number of females in village B=4x-8x/3=4x/3

4x/3=200

4x=600

x=150

The total number of people in village A=5*150=750

29) Answer: C

A alone can complete the work=x days

B alone can complete the work=(x+10) days

A and B together can complete the work=12 days

1/x+1/(x+10)=1/12

(x+10+x)*12=x^2+10x

12x+120+12x=x^2+10x

x^2-14x-120=0

x^2-20x+6x-120=0

x(x-20)+6(x-20)=0

x=+20, -6 (not possible)

x=20

30) Answer: D

The total weight of 5 students=5*64=320 kg

The total weight of the first two students=2*56=112 kg

The total weight of the last two students=2*62=124 kg

The weight of the third student=320-112-124=84 kg

31) Answer: D

Required total = (30 * 400) + (20 * 480)

= 12000 + 9600

= Rs.21600

32) Answer: B

Required difference = (480 + 880) – (520 + 800)

= 40

33) Answer: A

Required ratio = 640:(480 + 440)

= 640:920

= 16:23

34) Answer: C

Required percentage = 360/(400 + 640 + 440 + 720) * 100

= 16%

35) Answer: B

Total number of books in F = 220/100 * 520 = 1144

Number of Comic books in F = 140/100 * 640 = 896

Required total = 1144 – 896 = 248

SBI CLERK PRELIMS QUANTITATIVE APTITUDE MEMORY BASED PAPER–2019

Directions (1-5): What value should come in the place of (?) in the following number series?

1) 4, 5, 12, ?, 160, 805
a) 29
b) 45
c) 22
d) 15
e) 39

2) 5, 9, 25, 61, 125, ?
a) 225
b) 250
c) 230
d) 245
e) 215

3) 23, 34, 21, 38, 19, ?
a) 45
b) 60
c) 42
d) 51
e) 38

4) 1500, 1500, 750, 2250, 562.5, ?
a) 2850.5
b) 2835.5
c) 2845.5
d) 2812.5
e) 2823.5

5) 18, 24, 38, 68, 122, ?

a) 225
b) 208
c) 220
d) 240
e) 232

Directions (6-15): What value should come in the place of (?) in the following questions?

6) 25% of 320 + 30% of 300 – 15% of 900 = ?
a) 45
b) 20
c) 25
d) 35
e) 40

7) $784 \div 7 * 14 + 22^2 = ? - \sqrt{784}$
a) 2080
b) 2050
c) 2060
d) 2045
e) 2035

8) 36 * 20 – 21 * 10 – 25 * 8 = ?
a) 280
b) 295
c) 310
d) 255
e) 325

9) $125 \div 5 * 13 – 16^2 – 8^2 = ?$
a) 5

b) 8

c) 12

d) 10

e) 15

10) $\sqrt{729} + \sqrt{676} - ? = \sqrt{961}$

a) 25

b) 30

c) 36

d) 17

e) 22

11) $1/4 * 160 - 3/2 * 200 + ? = 5/6 * 540$

a) 850

b) 710

c) 835

d) 800

e) 785

12) 20% of 500 - ? + 35% of 700 = 350

a) -5

b) -15

c) 7

d) 10

e) -8

13) ?% of 1500 + 20% of 750 + 15% of 320 = 393

a) 20

b) 25

c) 30

d) 13

e) 7

14) $11 * ? - 12^2 = 11 * 13 + 3^3 * 2$

a) 40

b) 31

c) 38

d) 48

e) 25

15) $15 * \sqrt{324} - ? - 18\%$ of 900 = 40% of 50

a) 78

b) 68

c) 60

d) 95

e) 88

Directions (16-20): The following questions contain two equations as I and II. You have to solve both the equations and determine the relationship between them and give the answer as,

16)

I) $x^2 - 12x + 32 = 0$

II) $3y^2 - 15y + 18 = 0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined

d) x < y

e) x ≤ y

17)

I) $3x^2 + 27x - 108 = 0$

II) $2y^2 - 17y + 26 = 0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined

d) x< y

e) x ≤ y

18)

I) $x^2 + 17x + 72 = 0$

II) $y^2 - 21y + 68 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined

d) x< y

e) x ≤ y

19)

I) $2x^2 - 15x + 27 = 0$

II) $y^2 + 18y - 63 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined

d) x< y

e) x ≤ y

20)

I) $x^2 - x - 132 = 0$

II) $4y^2 - 10y - 14 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined

d) x< y

e) x ≤ y

21) Marked price of an article is 20% more than its Cost price of the article and a discount of 10% is offered and earned a profit of Rs.120. Find the

Selling price of the article, if a discount of 20% is offered on the Marked price of the article.

a) Rs.1500

b) Rs.1440

c) Rs.1560

d) Rs.1200

e) Rs.1350

22) Average weight of boys in a class is 20kg and the average weight of girls in the class is 25 kg and the total weight of the class is 770 kg. Find the average weight of the class, if the ratio of the number of boys and girls in the class is 3:2.

a) 30 kg

b) 35 kg

c) 29 kg

d) 18 kg

e) 22 kg

23) The ratio of the present age of A and B is 7:8 and the ratio of the present age of B and C is 8:9, and the age of A after 7 years is 28 years. Find the ratio of age of B after 6 years and the age of C before 3 years.

a) 5:4

b) 6:5

c) 7:8

d) 3:2

e) 5:7

24) A vessel contains milk and water in the ratio 4:5 in which 18 liters of mixture is taken out and

12 liters of milk is added, then the ratio of milk and water becomes 7:5. Find the difference between initial and final quantity of milk.

a) 8 liters

b) 12 liters

c) 15 liters

d) 4 liters

e) 1 liter

25) A, B and C entered into a partnership with an investment of Rs.5000, Rs.7500 and Rs.9000 respectively and after 1 year of investment, A withdraws half of the investment and C withdraws 1/3rd of investment. If at the end of two years, the difference between the profit of A and C is Rs.2000, then find the total profit obtained by A, B and C together.

a) Rs.12000

b) Rs.10000

c) Rs.8000

d) Rs.9500

e) Rs.11000

26) P invests Rs.x in Simple interest at an interest of 12% per annum for 3 years and gains an interest of Rs.5400. Find the interest obtained by P, if P invests Rs.x+3000 in Compound interest for 2 years at 20% per annum.

a) Rs.8000

b) Rs.8250

c) Rs.7800

d) Rs.8100

e) Rs.7920

27) If the ratio of the speed of the Boat and the speed of the current is 5:1, then find the total time taken by the Boat to cover 600km upstream and 720 km downstream and the average speed of the Boat and current is 18 km/hr.

a) 50 hours

b) 60 hours

c) 45 hours

d) 55 hours

e) 30 hours

28) The ratio of the radius and height of the cylinder is 5:7 and the length and breadth of the rectangle is equal to the height and radius of the cylinder respectively. Find the volume of the cylinder, if the area of the rectangle is 140 m².

a) 4400 m^3

b) 4000 m^3

c) 4500 m^3

d) 4200 m^3

e) 3950 m^3

29) The ratio of the efficiency of A and B is 5:4 and A and B can together complete the same work in 120/9 days and the efficiency of C is 20% more than the efficiency of A. Find the time taken by B and C together to complete the work.

a) 20 days

b) 8 days

c) 15 days

d) 12 days

e) 24 days

30) The sum of the speed of Train A and Train B is 126 km/hr and the ratio of speed of Train A and Train B is 3:4 and the time taken by Train A to cross an electric pole is 40 seconds. Find the time taken by Train A and Train B to cross each other in opposite direction, if the length of Train B is 200m more than the length of Train A.

a) 40 seconds

b) 50 seconds

c) 35 seconds

d) 25 seconds

e) 58 seconds

Direction (31-35): Read the following information carefully and answer the questions given below.

The following bar graph shows the total number of books read by 6 different persons in the year 2005 and 2006.
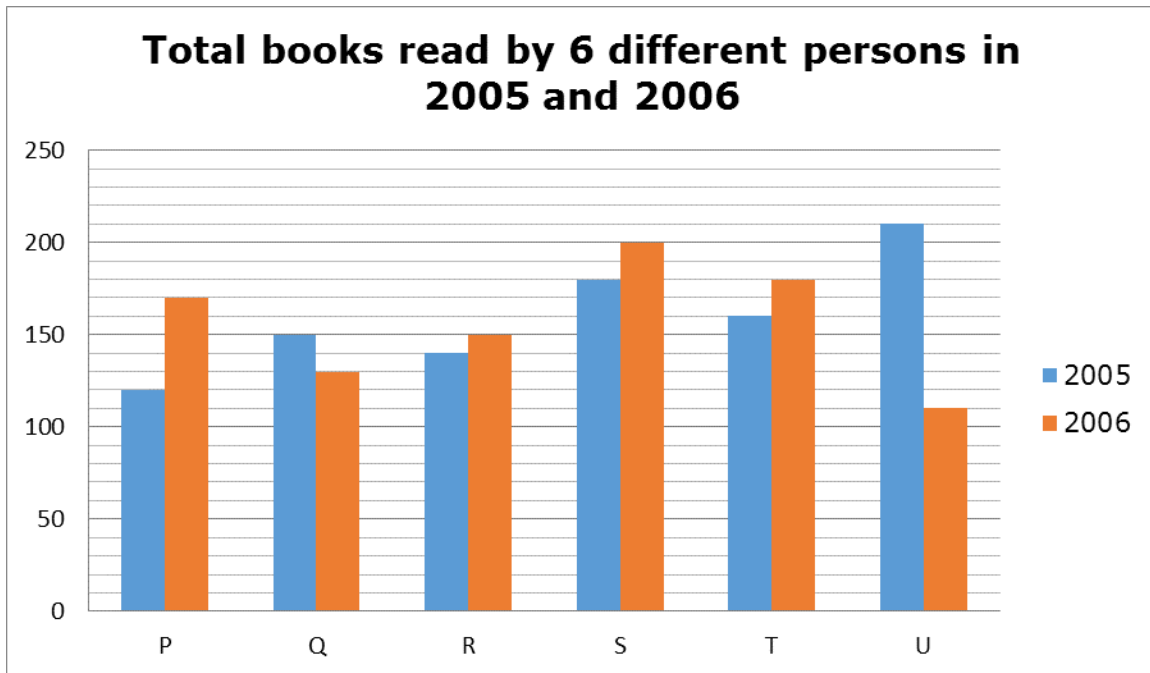
31) Find the ratio between the total number of books read by the person P, Q and R together in the year 2005 to the total number of books read by the person S, T and U together in the year 2006.

a) 13:17

b) 41:49

c) 25:32

d) 67:73

e) None of these

32) Find the average number of books read by all the given persons in the year 2005.

a) 155

b) 165

c) 170

d) 160

e) None of these

33) Total number of books read by person Q and S together in the year 2005 is what percentage of total number of books read by person R and T together in the year 2006?

a) 95%

b) 100%

c) 80%

d) 85%

e) None of these

34) Find the difference between the total number of books read by the person P and T together in the year 2005 and the total number of books read by the person Q and S together in the year 2006.

a) 70

b) 40

c) 60

d) 80

e) None of these

35) If the total number of books read by the person A in the year 2005 is 20 % more than the total number of books read by the person Q in the same year and the total number of books read by the person A in 2006 is same as that the total books read by the person S in the same year, then find the total number of books read by the person A in the both years together?

a) 380

b) 400

c) 320

d) 360

e) None of these

Answer Key with Explanation

1) Answer: E

$4 * 1 + 1 = 5$

$5 * 2 + 2 = 12$

$12 * 3 + 3 = \mathbf{39}$

$39 * 4 + 4 = 160$

$160 * 5 + 5 = 805$

2) Answer: A

$5 + 2^2 = 9$

$9 + 4^2 = 25$

$25 + 6^2 = 61$

$61 + 8^2 = 125$

$125 + 10^2 = \mathbf{225}$

3) Answer: C

$23 + 11 = 34$

$34 - 13 = 21$

$21 + 17 = 38$

$38 - 19 = 19$

$19 + 23 = \mathbf{42}$

4) Answer: D

$1500 * 1 = 1500$

$1500 \div 2 = 750$

$750 * 3 = 2250$

2250 ÷ 4 = 562.5

562.5 * 5 = **2812.5**

5) Answer: B

18   24   38   68   122   **208**
   6   14   30   54   86
   8   16   24   32
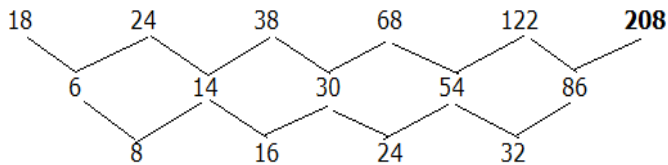
6) Answer: D

25/100 * 320 + 30/100 * 300 – 15 /100 * 900 = ?

80 + 90 – 135 = ?

? = 35

7) Answer: A

$784 ÷ 7 * 14 + 22^2 = ? - \sqrt{784}$

1568 + 484 = ? - 28

? = 2080

8) Answer: C

36 * 20 – 21 * 10 – 25 * 8 = ?

720 – 210 – 200 = ?

? = 310

9) Answer: A

$125 ÷ 5 * 13 – 16^2 – 8^2 = ?$

325 – 256 – 64 = ?

? = 5

10) Answer: E

$\sqrt{729} + \sqrt{676} - ? = \sqrt{961}$

27 + 26 - ? = 31

? = 22

11) Answer: B

1/4 * 160 – 3/2 * 200 + ? = 5/6 * 540

40 – 300 + ? = 450

? = 710

12) Answer: A

20% of 500 - ? + 35% of 700 = 350

20/100 * 500 - ? + 35/100 * 700 = 350

100 - ? + 245 = 350

? = -5

13) Answer: D

?% of 1500 + 20% of 750 + 15% of 320 = 393

?/100 * 1500 + 20/100 * 750 + 15/100 * 320 = 393

15 * ? + 150 +48 = 393

? = 13

14) Answer: B

$11 * ? - 12^2 = 11 * 13 + 3^3 * 2$

11 * ? – 144 = 143 + 54

11 * ? = 341

? = 31

15) Answer: E

$15 * \sqrt{324} - ? – 18\% of 900 = 40\% of 50$

$15 * \sqrt{324} - ? – 18\% of 900 = 40\% of 50$

15 * 18 - ? – 18 * 9 = 20

270 - ? – 162 = 20

? = 88

16) Answer: A

$x^2 - 12x + 32 = 0$

$x^2 - 8x - 4x + 32 = 0$

$x(x - 8) - 4(x - 8) = 0$

$x = 8, 4$

$3y^2 - 15y + 18 = 0$

÷3

$y^2 - 5y + 6 = 0$

$y^2 - 3y - 2y + 6 = 0$

$y(y-3) - 2(y-3) = 0$

$y = 3, 2$

$x > y$

17) Answer: C

$3x^2 + 27x - 108 = 0$

$3x^2 + 36x - 9x - 108 = 0$

$3x(x+12) - 9(x+12) = 0$

$x = -12, 3$

$2y^2 - 17y + 26 = 0$

$2y^2 - 13y - 4y + 26 = 0$

$y(2y - 13) - 2(2y - 13) = 0$

$y = 6.5, 2$

x = y or relationship can't be determined

18) Answer: D

$x^2 + 17x + 72 = 0$

$x^2 + 9x + 8x + 72 = 0$

$x(x+9) + 8(x+9) = 0$

$x = -9, -8$

$y^2 - 21y + 68 = 0$

$y^2 - 17y - 4y + 68 = 0$

$y(y-17) - 4(y-17) = 0$

$y = 4, 17$

$x < y$

19) Answer: B

$2x^2 - 15x + 27 = 0$

$2x^2 - 9x - 6x + 27 = 0$

$x(2x-9) - 3(2x - 9) = 0$

$x = 3, 4.5$

$y^2 + 18y - 63 = 0$

$y^2 + 21y - 3y - 63 = 0$

$y(y+21) - 3(y+21) = 0$

$y = -21, 3$

$x \geq y$

20) Answer: C

$x^2 - x - 132 = 0$

$x^2 - 12x + 11x - 132 = 0$

$x(x-12)+11(x-12) = 0$

$x = 12, -11$

$4y^2 - 10y - 14 = 0$

$4y^2 - 14y + 4y - 14 = 0$

$2y(2y-7) + 2(2y-7) = 0$

$Y = 3.5, -1$

x = y or relationship can't be determined

21) Answer: B

Cost price of the article = 100x

Marked price of the article = 100x+100x*20/100 = 120x

Selling price of the article = 120x-120x*10/100 = 108x

Profit earned = 108x-100x = 8x

8x = 120

x = 15

Marked price of the article = 120*15 = Rs.1800

Selling price of the article = 1800 – 1800*20/100 = Rs.1440

22) Answer: E

Number of boys in the class = 3x

Number of girls in the class = 2x

20*3x + 25*2x = 770

x = 7

Number of boys in the class = 3*7 = 21

Number of girls in the class = 2*7 = 14

Average weight of the class = 770/(21+14) = 22 kg

23) Answer: A

Ratio of present age of A, B and C = 7:8:9

Present age of A = 28-7 = 21 years

Present age of B = 21*8/7 = 24 years

Present age of C = 21*9/7 = 27 years

Required ratio = (24+6):(27-3) = 5:4

24) Answer: D

Initial quantity of milk = 4x

Initial quantity of water = 5x

(4x-18*4/9+12)/(5x-18*5/9) = 7/5

x = 6

Initial quantity of milk = 4*6 = 24 liters

Final quantity of milk = 24 – 18*4/9 + 12 = 28 litres

Required difference = 28-24 = 4 liters

25) Answer: B

Profit ratio of A, B and C = (5000*1)+(5000/2*1) : (7500*2) : (9000*1)+(9000*2/3*1)

= 1 : 2 : 2

Difference between profit of A and C = x = 2000

Total profit = 2000*5 = Rs.10000

26) Answer: E

x * 12 * 3/100 = 5400

x = 15000

Amount invested in Compound interest = 15000 + 3000 = Rs.18000

Interest obtained = $(18000 * (1+20/100)^2)$ – 18000 = $(18000 * (120/100))^2$ – 18000 = Rs.7920

27) Answer: C

Speed of the Boat = 5x

Speed of the current = x

Total speed of the Boat and current = 18 * 2 = 36 km/hr

6x = 36

x = 6

Speed of the Boat = 5*6 = 30 km/hr

Speed of the current = 6 km/hr

Total time taken = 600/(30-6) + 720/(30+6) = 45 hours

28) Answer: A

Radius of the cylinder = 5x

Height of the cylinder = 7x

Length of the rectangle = 7x

Breadth of the rectangle = 5x

7x * 5x = 140

$x^2 = 4$

x = 2

Radius of the cylinder = 5*2 = 10m

Height of the cylinder = 7*2 = 14m

Volume of the cylinder = $\Pi r^2 h$ = 22/7 * 10 * 10 * 14 = 4400 m^3

29) Answer: D

Time taken by A alone complete the work = 4x

Time taken by B alone complete the work = 5x

1/A + 1/B = 9/120

x = 6

Time taken by A alone = 4*6 = 24 days

Time taken by B alone = 5*6 = 30 days

Ratio between time taken by A and C = 6:5

Time taken by C alone = 24 * 5/6= 20 days

Time taken by B and C together = (1/30) + (1/20) = 1/12 = 12 days

30) Answer: A

Speed of Train A = 126 * 3/7 = 54 km/hr = 54*5/18 = 15 m/s

Speed of Train B = 126 * 4/7 = 72 km/hr = 72*5/18 = 20 m/s

Length of Train A = 15*40 = 600m

Length of Train B = 800m

Time taken = (600+800)/(20+15) = 40 seconds

31) Answer: B

The total number of books read by the person P, Q and R together in the year 2005

= 120 + 150 + 140 =410

The total number of books read by the person S, T and U together in the year2006

= 200 + 180 + 110 =490

Required ratio = 410 : 490 = 41 : 49

32) Answer: D

The average number of books read by all the given persons in the year 2005

= (120 + 150 + 140 + 180 + 160 + 210)/6 = 160

33) Answer: B

Total number of books read by person Q and S together in the year 2005

= 150 + 180 = 330

Total number of books read by person R and T together in the year 2006

= 150 + 180 = 330

Required % = (330/330)*100 = 100 %

34) Answer: E

The total number of books read by the person P and T together in the year 2005

= 120 + 160 = 280

The total number of books read by the person Q and S together in the year 2006

= 130 + 200 = 330

Required difference = 330 - 280 = 50

35) Answer: A

The total number of books read by the person A in the both years together

= 150*(120/100) + 200

= 180 + 200 = 380

SBI Clerk Prelims Quantitative Aptitude bundle PDF course Day 1

Direction (1-5): Read the following information carefully and answer the questions given below.

The given bar graph shows the percentage distribution of Cars manufactured in all states together and the percentage of bikes manufactured in respective states namely State A, State B, State C and State D.

Total number of cars manufactured from all states together = 1800

Legend:
- ■ % distribution of cars manufactured in all states together
- ■ % of bikes manufactured in respective states
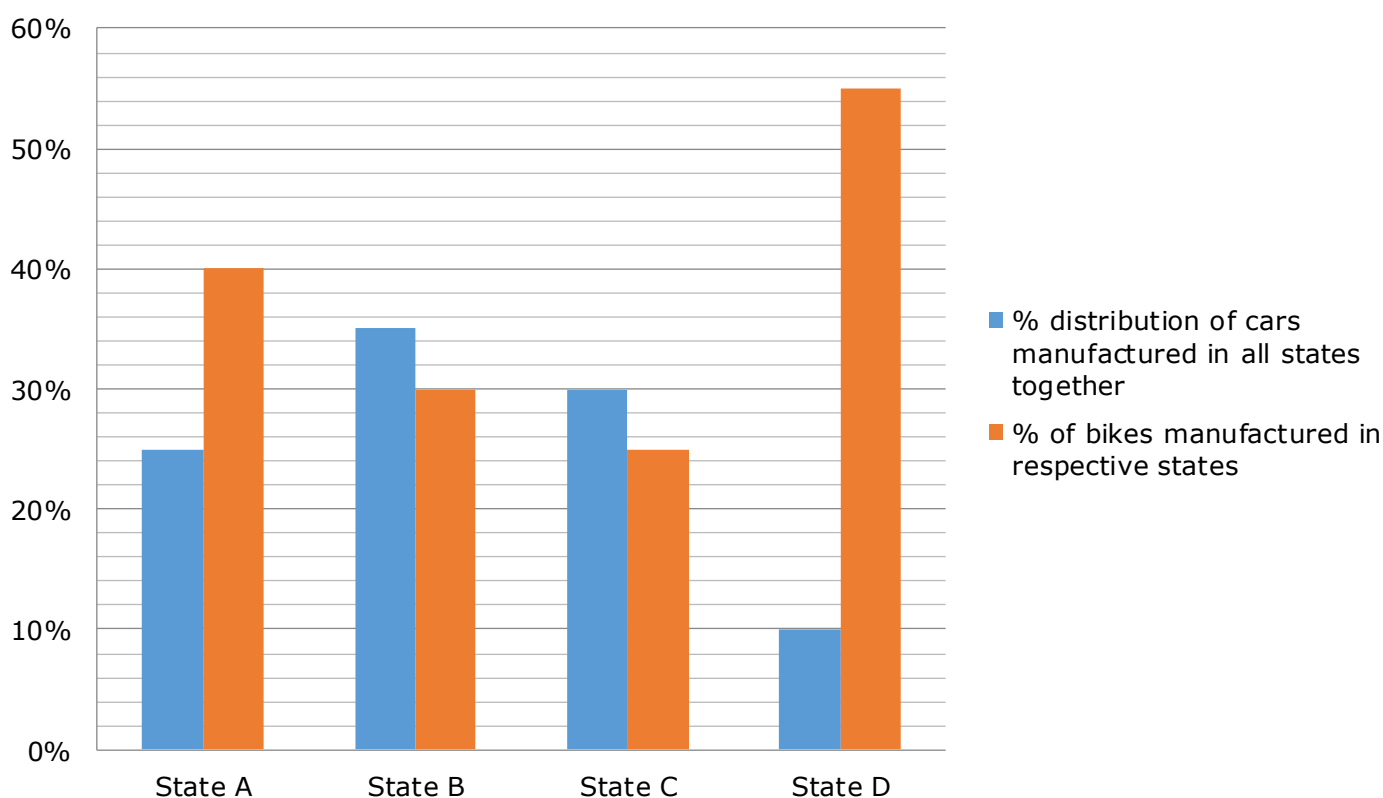
1) Find the sum of the total number of cars manufactured by State A and the total number of bikes manufactured by State D.

a) 850

b) 800

c) 890

d) 670

e) 830

2) Find the ratio between the total number of bikes and cars manufactured by State C and

State D respectively and the total number of Cars manufactured by State B and State C.

a) 5:19

b) 4:13

c) 6:17

d) 19:7

e) 13:4

3) Find the difference between the average number of Cars and bikes manufactured by State B and State C respectively and the average

number of cars manufactured by State A and State D.

a) 100
b) 145
c) 120
d) 70
e) 90

4) If the total number of cars and bikes manufactured in State E is 20% more than the total number of cars and bikes manufactured in State D and the total number of cars and bikes manufactured in State F is 20% less than the total number of cars and bikes manufactured in State A, then find the total number of cars and bikes manufactured from State E and F together?

a) 1080
b) 1350
c) 1390
d) 1280
e) 1330

5) If the total number of bikes manufactured in State A is increased by 30% and the total

number of cars manufactured by State D is increased by 20%, then now find the total number of bikes manufactured in State A is approximately what percentage more/less than the total number of cars manufactured by State D?

a) 89% less
b) 78% more
c) 85% less
d) 81% more
e) 87% more

Direction (6-10): Read the following information carefully and answer the questions given below.

The given pie chart shows the percentage distribution of the total number of cement bags sold in four different shops. The ratio of the total number of cement bags sold to the total number of sand bags sold is 3:2, 2:1, 7:4 and 4:3 in Shop P, Q, R and S respectively. Total number of bags sold = Number of Cement bags sold + Number of Sand bags sold.
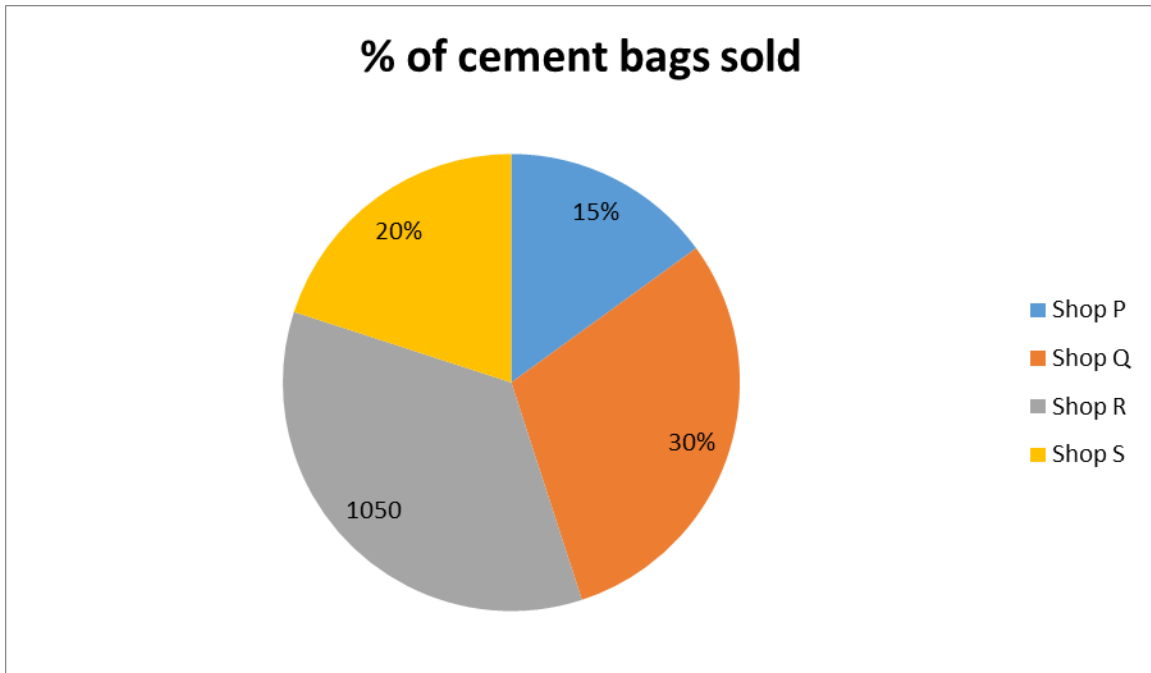
% of cement bags sold

6) Find the difference between the average number of Cement bags sold by Shop P, Q and S and the average number of Sand bags sold by Shop P and Q.

a) 430

b) 480

c) 455

d) 410

e) 275

7) The number of cement bags sold by Shop S is approximately what percentage of the average number of bags (cement+sand) sold by Shop P and Q?

a) 70%

b) 52%

c) 57%

d) 80%

e) 75%

8) If the price of each cement bag sold by Shop P is Rs.400 and the price of each sand bag sold by Shop R is Rs.120 respectively, then find the total cost obtained, while selling 20% of total bags of cement from Shop P and 30% of total bags of sand from Shop R?

a) Rs.57600

b) Rs.57000

c) Rs.58000

d) Rs.57400

e) Rs.57850

9) If the ratio of the total number of bags sold by Shop Q to the total number of bags sold by Shop A is 15:13 and the percentage of the total number of sand bags sold by Shop A is 33.33% more than the total number of sand bags sold by Shop R, then find the ratio of the total number of cement bags sold by A and the total number of sand bags sold by Shop S?

a) 38:49

b) 45:44

c) 39:41

d) 37:45

e) 41:46

10) Find the sum of the average number of cement bags sold by Shop P and R and the average number of bags sold by Shop Q.

a) 1400

b) 1425

c) 1455

d) 1468

e) 1475

11) Ratio of the cost price and the marked price of handbag A is 5:7 and the cost price of handbag B is 20% more than the cost price of handbag A. If the shopkeeper offers a discount on handbag A is 20% and the selling price of handbag A is Rs.840, then find the cost price of handbag B?

a) Rs.900

b) Rs.500

c) Rs.700

d) Rs.800

e) None of these

12) The perimeter of a square is 80m and the length of the rectangle is 25% more than the side of the square and the area of the rectangle is 600m². Find the sum of the perimeter of the rectangle and circumference of the circle, if the

radius of the circle is 2m more than the half of the breadth of the rectangle.

a) 186m

b) 190m

c) 176m

d) 180m

e) 195m

13) Anu invested Rs.P in a simple interest scheme at the rate of 15% per annum for 3 years. After 3 years, the interest received by Anu is Rs.900. If Anu invested the same principle in compound interest at the rate of 20% per annum for 2 years, then find the compound interest received?

a) Rs.600

b) Rs.420

c) Rs.880

d) Rs.750

e) None of these

14) The downstream speed of the boat is 60% more than the speed of the boat in still water. If the boat covers 280 km downstream in 7 hours, then find the time taken by boat covers 150 km upstream?

a) 12 hours

b) 15 hours

c) 10 hours

d) 16 hours

e) None of these

15) The ratio of present age A and B is 8:9 and the ratio of ages of A and B after 10 years is 34:37. Find the sum of ages of C after 6 years and D after 7 years, if the ratio of present age of A and C is 4:5 and the present age of D is 5 years more than the present age of B.

a) 75 years

b) 80 years

c) 85 years

d) 64 years

e) 71 years

16) The weight of A is 16 kg less than the weight of B and the weight of C is 12 kg less than the weight of B. If the average weight of A and C is 58 kg, then find the weight of C?

a) 72 kg

b) 60 kg

c) 56 kg

d) 80 kg

e) None of these

17) The difference between the time taken by a car to travel 150 km with its actual speed and 360 km with a speed 20% more than its actual speed is 5 hours. If the ratio of the speed of the truck and actual speed of the car is 5:6, then find the time taken by the truck to cover 350 km.

a) 12 hours

b) 10 hours

c) 14 hours

d) 7 hours

e) 18 hours

18) A alone can complete a work in 10 days and the efficiency of A is 20% more than the efficiency B. If B starts the work and leaves after 6 days and A completes the remaining work, then find the total time taken to complete the work.

a) 15 days

b) 10 days

c) 8 days

d) 11 days

e) None of these

19) A vessel contains a mixture of Magnesium and Zinc in the ratio of 7:6 and 26 liters of the mixture is removed and when 10 liters of magnesium and 12 liters of zinc is added to the mixture, then the ratio becomes 13:12. Find the difference between initial and final quantity of magnesium in the vessel.

a) 8 liters

b) 11 liters

c) 6 liters

d) 15 liters

e) 4 liters

20) Out of the total number of passed out students from a college in 2019, 20% of the students doing PG and 45% of the students doing Doctorate and the remaining students going for a job. Find the difference between the students who are doing doctorate and going for

a job, if the average number of students doing PG and Doctorate is 975.

a) 300

b) 500

c) 600

d) 250

e) 650

Answer Key with Explanation

Direction (1-5):

Total number of Cars manufactured from all states together = 1800

Total number of Cars manufactured from State A = 1800 * 25/100 = 450

Total number of Bikes manufactured from State A = 450 * 40/60= 300

Total number of Cars manufactured from State B = 1800 * 35/100 = 630

Total number of Bikes manufactured from State B = 630 * 30/70 = 270

Total number of Cars manufactured from State C = 1800 * 30/100 = 540

Total number of Bikes manufactured from State C = 540 * 25/75 = 180

Total number of Cars manufactured from State D = 1800* 10/100 = 180

Total number of Bikes manufactured from State D = 180 * 55/45 = 220

State	Total (Car+Bike)	Total number of Cars	Total number of bikes
A	750	450	300
B	900	630	270
C	720	540	180
D	400	180	220

1) Answer: D

Required sum = 450+220 = 670

2) Answer: B

Required ratio = (180+180):(630+540) = 4:13

3) Answer: E

Required difference = (630+180)/2 - (450+180)/2 = 405-315 = 90

4) Answer: A

The total number of cars and bikes manufactured in State E = 400 * 120/100 = 480

The total number of cars and bikes manufactured in State F = 750 * 80/100 = 600

Required sum = 480+600 = 1080

5) Answer: D

The total number of bikes manufactured in State A = 300 * 130/100 = 390

The total number of cars manufactured by State D = 180 * 120/100 = 216

Required percentage = (390-216)/216 * 100 = 81% more

Direction (6-10):

Total number of Cement bags sold in Shop R = 100% - (15%+30%+20%) = 35%

Total number of Cement bags sold from all shops together = 1050 * 100/35 = 3000

Total number of Cement bags sold in Shop P = 3000*15/100 = 450

Total number of Sand bags sold in Shop P = 450*2/3 = 300

Total number of Cement bags sold in Shop Q = 3000*30/100 = 900

Total number of Sand bags sold in Shop Q = 900 * ½ = 450

Total number of Cement bags sold in Shop R = 1050

Total number of Sand bags sold in Shop R = 1050*4/7 = 600

Total number of Cement bags sold in Shop S = 3000*20 = 600

Total number of Sand bags sold in Shop S = 600*3/4 = 450

Shops	Total (Cement+Sand) bags	Total number of Cement bags	Total number of Sand bags
P	750	450	300
Q	1350	900	450
R	1650	1050	600
S	1050	600	450

6) Answer: E

Required difference = (450+900+600)/3 – (300+450)/2 = 650 – 375 = 275

7) Answer: C

The average number of bags (cement+sand) sold by Shop P and Q
= (750+1350)/2 = 1050

Required percentage = 600/1050 *100 = 57%

8) Answer: A

20% of total bags of cement sold from Shop P = 450 * 20/100 = 90

30% of total bags of sand sold from Shop R = 600 * 30/100 = 180

Total cost obtained = 90*400 + 180*120 = 36000+21600 = Rs.57600

9) Answer: D

The total number of bags sold by Shop A = 1350 * 13/15 = 1170

The total number of sand bags sold by Shop A = 600+600*33.33/100 = 800

The total number of cement bags sold by Shop A = 1170-800 = 370

Required ratio = 370:450 = 37:45

10) Answer: B

Required sum = (450+1050)/2 + 1350/2 = 750 + 675 = 1425

11) Answer: A

CP of the handbag A=5x

MP of the handbag A=7x

CP of the handbag B=5x*120/100=6x

SP of the handbag A=7x*80/100=5.6x

5.6x=840

x=150

CP of the handbag B=6*150=Rs.900

12) Answer: A

Perimeter of a square = 80m

4a = 80

a = 20m

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Length of the rectangle =20*125/100 = 25m

l*b = 600

25 * b = 600

b = 24m

Radius of the circle = 24/2 + 2 = 14m

Perimeter of the rectangle = 2(l+b) = 2(25+24) = 98m

Circumference of the circle = 2Πr = 2*22/7*14 = 88m

Required sum = 98+88 = 186m

13) Answer: C

P*15*3/100=900

P=Rs.2000

The compound interest received by Anu=2000*(1+20/100)^2-2000

=2000*120/100*120/100-2000

=2880-2000

=Rs.880

14) Answer: B

The downstream speed of the boat=280/7=40 km/hr

The speed of the boat=40*100/160=25 km/hr

The speed of the stream=40-25=15 km/hr

The upstream speed of the boat=25-15=10 km/hr

Required time=150/10=15 hours

15) Answer: A

Present age of A = 8x

Present age of B = 9x

(8x+10)/(9x+10) = 34/37

x = 3

Present age of A = 8*3 = 24 years

Present age of B = 9*3 = 27 years

Present age of C = 24*5/4 = 30 years

Present age of D = 27+5 = 32 years

Required sum = (30+6) + (32+7) = 36+39 = 75 years

16) Answer: B

The weight of B=x kg

The weight of A=(x-16) kg

The weight of C=(x-12) kg

(x-16+x-12)/2=58

2x-28=116

2x=144

x=72

The weight of B=72 kg

The weight of C=72-12=60 kg

17) Answer: C

Actual speed of the car = x km/hr

Increased speed of the car = x * 120/100 = 1.2x

360/1.2x – 150/x = 5

x = 30 km/hr

Speed of the truck = 30*5/6 = 25 km/hr

Time taken by the truck = 350/25 = 14 hours

18) Answer: D

Time taken by A alone = 10 days

Ratio of efficiency of A and B = 120/100 = 6:5

Time ratio of A and B = 5:6

Time taken by B alone = 10 * 6/5 = 12 days

LCM of 10,12 = 60

Total work = 60 units

A = 60/10 = 6 works per day

B = 60/12 = 5 works per day

Work completed by B = (6*5) = 30 works

Time taken by A to complete the remaining work

= 30/6 = 5 days

Total time taken by A and B = 6+5 = 11 days

19) Answer: E

Initial quantity of magnesium = 7x

Initial quantity of zinc = 6x

(7x – 26*7/13 + 10)/(6x – 26*6/13 + 12) = 13/12

(7x – 4)/6x = 13/12

x = 8

Initial quantity of magnesium = 56 liters

Final quantity of magnesium = 52 liters

Required difference = 56 – 52 = 4 liters

20) Answer: A

Number of students doing PG = 20x

Number of students doing doctorate = 45x

Number of students going for job = 35x

Average number of students doing PG and Doctorate = 975

Total number of students doing PG and Doctorate = 975*2 = 1950

65x = 1950

x = 30

Difference between the students who are doing doctorate and goes for job = 45x – 35x = 10x = 300

Score booster

Directions (1-5): What approximate value should come in the place of (?) in the following questions?

1) $249.87 * 2.99 * 5.99 \div ? = 4.64^2$

a) 200

b) 220

c) 180

d) 150

e) 125

2) 29.88% of $119 + 4.59^3 – 9.99\%$ of $150 = ?$

a) 146

b) 186

c) 156

d) 176

e) 126

3) $? - \sqrt{224.58} * 17.65 – 11.77^2 = 299.69$

a) 801

b) 700

c) 684

d) 725

e) 714

4) $7.88^2 \div 3.99 - ?^2 + 5.55 * 14.99 = 5.13^2$

a) 9

b) 8

c) 7

d) 10

e) 6

5) 19.99% of 599.69 – 14.56% of 299.62 + 14.96² = ?

a) 250

b) 280

c) 320

d) 300

e) 240

Directions (6-10): What value should come in the place of (?) in the following number series?

6) 8, 9, 64, 25, 216, ?

a) 64

b) 512

c) 81

d) 121

e) 49

7) 20, 28, 40, 56, 76, ?

a) 120

b) 140

c) 100

d) 180

e) 80

8) 10, 12, 9, 14, 7, ?

a) 25

b) 18

c) 35

d) 48

e) 54

9) 5, 11, 24, 51, 106, ?

a) 197

b) 187

c) 177

d) 217

e) 167

10) 729, 243, 81, 27, 9, ?

a) 3

b) 6

c) 27

d) 9

e) 18

Directions (11-15): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

11)

I) $2x^2 - 28x + 96 = 0$

II) $y^2 - 22y + 120 = 0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined

d) x < y

e) x ≤ y

12)

I) $x^2 + 2x - 143 = 0$

II) $y^2 + 18y + 56 = 0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined

d) x < y

e) x ≤ y

13)

I) $x^2 + 4x - 21 = 0$

II) $y^2 - 24y + 63 = 0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined

d) x < y

e) x ≤ y

14)

I) $2x^2 - 7x - 60 = 0$

II) $y^2 + 20y + 96 = 0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

15)

I) $2x^2 - 26x + 80 = 0$

II) $3y^2 - 5y - 50 = 0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

Directions (16-20): Find out the wrong number in the following number series.

16) 8, 14, 26, 50, 72, 194

a) 8

b) 14

c) 26

d) 72

e) 194

17) 32, 16, 24, 60, 210, 525

a) 32

b) 16

c) 24

d) 60

e) 525

18) 65, 75, 85, 105, 145, 225

a) 65

b) 75

c) 85

d) 105

e) 225

19) 125, 136, 123, 140, 126, 144

a) 125

b) 136

c) 140

d) 126

e) 144

20) 191, 204, 225, 274, 355, 476

a) 191

b) 204

c) 225

d) 274

e) 476

Directions (21-25): What value should come in the place of (?) in the following questions?

21) 40% of (250/5)+25% of 280=?+45

a) 75

b) 90

c) 45

d) 80

e) 65

22) 360*5/6+8*12-?=√144*5

a) 336

b) 308

c) 375

d) 320

e) 342

23) ?% of 500+160*8/32=420/3

a) 50

b) 20

c) 15

d) 40

e) 30

24) 216-16²+?=5*(√64+√36)

a) 150

b) 170

c) 120

d) 160

e) 110

25) 30% of (250+?)+110=360-70

a) 310

b) 240

c) 160

d) 350

e) 200

Answer Key with Explanation

1) Answer: C

$249.87 * 2.99 * 5.99 \div ? = 4.64^2$

$250 * 3 * 6 \div ? = 5^2$

? = 180

2) Answer: A

29.88% of 119 + 4.59³ – 9.99% of 150 = ?

30/100 * 120 + 5³ – 10/100 * 150 = ?

36 + 125 – 15 =?

? = 146

3) Answer: E

$? - \sqrt{224.58} * 17.65 – 11.77^2 = 299.69$

$? - \sqrt{225} * 18 – 12^2 = 300$

? – 15 * 18 – 144 = 300

? = 714

4) Answer: A

$7.88^2 \div 3.99 - ?^2 + 5.55 * 14.99 = 5.13^2$

$8^2 \div 4 - ?^2 + 6 * 15 = 5^2$

$16 - ?^2 + 90 = 25$

$?^2 = 81$

$? = 9$

5) Answer: D

19.99% of 599.69 – 14.56% of 299.62 + 14.96^2 = ?

$20/100 * 600 - 15/100 * 300 + 15^2 = ?$

$120 - 45 + 225 = ?$

$? = 300$

6) Answer: E

$2^3 = 8$

$3^2 = 9$

$4^3 = 64$

$5^2 = 25$

$6^3 = 216$

$7^2 = $ **49**

7) Answer: C

$20 + 8 = 28$

$28 + 12 = 40$

$40 + 16 = 56$

$56 + 20 = 76$

$76 + 24 = $ **100**

8) Answer: B

$10 + 2 = 12$

$12 - 3 = 9$

$9 + 5 = 14$

$14 - 7 = 7$

$7 + 11 = $ **18**

9) Answer: D

$5 * 2 + 1 = 11$

$11 * 2 + 2 = 24$

$24 * 2 + 3 = 51$

$51 * 2 + 4 = 106$

$106 * 2 + 5 = $ **217**

10) Answer: A

$729 \div 3 = 243$

$243 \div 3 = 81$

$81 \div 3 = 27$

$27 \div 3 = 9$

$9 \div 3 = $ **3**

11) Answer: D

$2x^2 - 28x + 96 = 0$

$\div 2,$

$x^2 - 14x + 48 = 0$

$x^2 - 8x - 6x + 48 = 0$

$x(x-8) - 6(x-8) = 0$

$x = 6,8$

$y^2 - 22y + 120 = 0$

$y^2 - 10y - 12y + 120 = 0$

$y(y-10) - 12(y-10) = 0$

$y = 10,12$

$x < y$

12) Answer: C

$x^2 + 2x - 143 = 0$

$x^2 - 11x + 13x - 143 = 0$

$x(x-11) + 13(x-11) = 0$

$x = 11,-13$

$y^2 + 18y + 56 = 0$

$y^2 + 14y + 4y + 56 = 0$

y(y+14) + 4(y+14) = 0

y = -4, -14

x = y or relationship can't be determined

13) Answer: E

$x^2 + 4x - 21 = 0$

$x^2 + 7x - 3x - 21 = 0$

x(x+7) - 3(x+7) = 0

x = -7,3

$y^2 - 24y + 63 = 0$

$y^2 - 21y - 3y + 63 = 0$

y(y-21) - 3(y-21) = 0

y = 21, 3

x ≤ y

14) Answer: A

$2x^2 - 7x - 60 = 0$

$2x^2 + 8x - 15x - 60 = 0$

2x(x+4) - 15(x+4) = 0

x = -4, +15/2

x = -4, +7.5

$y^2 + 20y + 96 = 0$

$y^2 + 12y + 8y + 96 = 0$

y(y+12) + 8(y+12) = 0

y = -12, -8

Hence, x > y

15) Answer: B

$2x^2 - 26x + 80 = 0$

$x^2 - 13x + 40 = 0$

$x^2 - 5x - 8x + 40 = 0$

x(x-5) - 8(x-5) = 0

x = +5, +8

$3y^2 - 5y - 50 = 0$

$3y^2 - 15y + 10y - 50 = 0$

3y(y-5) + 10(y-5) = 0

y = +5, -10/3

y = +5, -3.33

Hence, x ≥ y

16) Answer: D

8*2-2=14

14*2-2=26

26*2-2=50

50*2-2=**98**

98*2-2=194

17) Answer: E

32*0.5=16

16*1.5=24

24*2.5=60

60*3.5=210

210*4.5=**945**

18) Answer: A

70	75	85	105	145	225
	5	10	20	40	80

19) Answer: D

125+11=136

136-13=123

123+17=140

140-19=**121**

121+23=144

20) Answer: B

$191+3^2=200$

$200+5^2=225$

$225+7^2=274$

$274+9^2=355$

$355+11^2=476$

21) Answer: C

40% of $(250/5)+25\%$ of $280=?+45$

$40*250/100*1/5+25*280/100=?+45$

$20+70=?+45$

$?=90-45$

$?=45$

22) Answer: A

$360*5/6+8*12-?=\sqrt{144}*5$

$300+96-?=12*5$

$?=396-60$

$?=336$

23) Answer: B

$?\%$ of $500+160*8/32=420/3$

$?*500/100+160/4=140$

$?*5=140-40$

$?=100$

$?=20$

24) Answer: E

$216-16^2+?=5*(\sqrt{64}+\sqrt{36})$

$216-256+?=5*(8+6)$

$?-40=14*5$

$?=70+40$

$?=110$

25) Answer: D

30% of $(250+?)/100+110=360-70$

$30*(250+?)/100=360-(70+110)$

$30*(250+?)=180*100$

$250+?=600$

$?=35$

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Direction (1-4): Read the following information carefully and answer the questions given below.

Two types of bus A and B take three rounds namely Round 1, Round 2 and Round 3. The total number of passenger seats in Bus A is 9 and the total number of passenger seats in Bus B is 11.

Bus A: The total number of passengers travelling in Bus A in all rounds together is 24. In round 1 all the passengers are full.

Bus B: The total number of passengers traveling in the 11 seater bus in any of the two rounds is the same which is 6. No passenger seats are full in all the three rounds.

Note:-

Sum of the total number of passengers in round 1 from both Bus A and B is equal to the sum of the total number of passengers in round 2 from both Bus A and B. The ratio of the total number of passengers travelling in round 2 by Bus A and B is 4:3.

1) The price of a ticket for each passenger in round 1 is Rs.100, for each passenger in round 2 is Rs.320 and for each passenger in round 3 is Rs.280 and the return journey ticket price for each round is reduced by 25%. Find the total revenue gained by Bus A and B, if the passengers from round 1 and round 3 are from Bus A and the passengers from round 2 are from Bus B and the passengers use the same bus for both journeys.

a) Rs.8400

b) Rs.8365

c) Rs.8380

d) Rs.8378

e) Rs.8392

2) If 33.33%, 25% and 42.85% of passengers in round 1, round 2 and round 3 from bus A pay the travel expenses through online mode and 2/5, 1/3 and 1/2 of passengers in round 1, round 2 and round 3 from Bus B pay their travel expenses through offline mode, then find the sum of total number of passengers in Bus A from all rounds together pay through offline mode and the total number of passengers in Bus B from all rounds together pay through online mode.

a) 28

b) 24

c) 30

d) 26

e) 21

3) Find the ratio of total number of passengers in round 1 from Bus A and B together to the total number of passengers in round 2 and round 3 from bus B together.

a) 7:6

b) 7:8

c) 3:4

d) 5:2

e) 2:5

4) If the total number of seats in Bus C is 7 and takes three rounds round 1, round 2 and round 3

and the total number of passengers travelling in Bus C in round 1 is 20% less than the total number of passengers travelling in Bus B in round 1 and the total number of passengers travelling in Bus C all round together is 18, then find the total number of travelling passengers in Bus C in round 2 and round 3.

a) 12
b) 15
c) 14
d) 19
e) 17

Direction (5-9): Read the following information carefully and answer the questions given below.

The given bar graph shows the average number of toys produced in 2018 and 2019 and the total number of toys produced in 2018. The given table chart shows the total number of toys sold in 2018 and 2019.
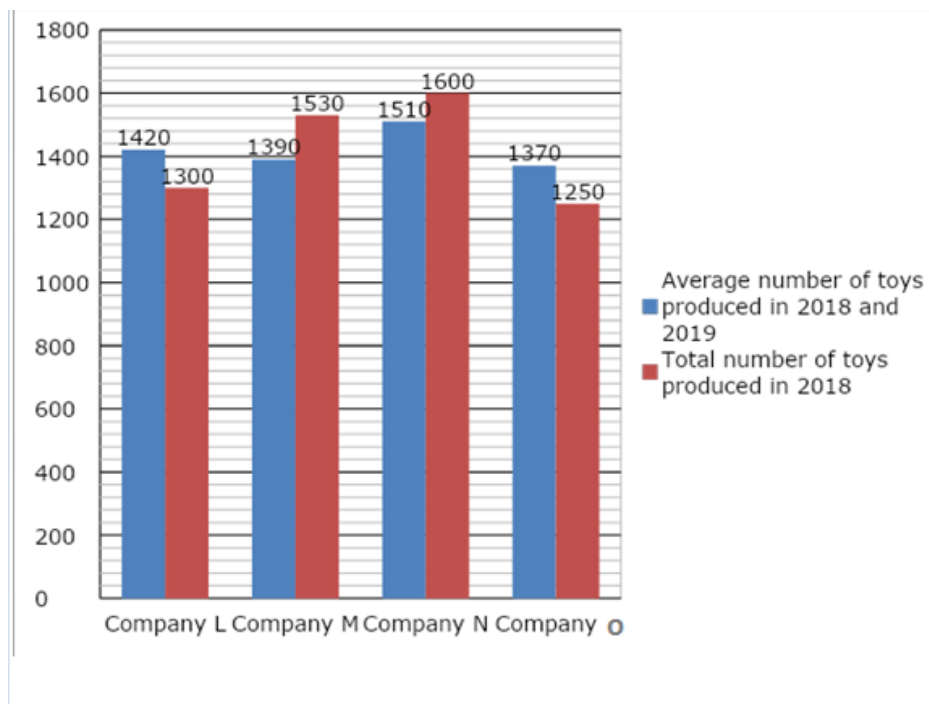
Company	Total number of toys sold in 2018	Total number of toys sold in 2019
L	x-275	y/3
M	x	y/5
N	x/2	(y/5)+250
O	x-765	(y/3)-462
Total	3440	y

5) If the total number of toys produced in 2020 by Company M is 33.33% more than the average number of toys produced in 2019 by Company M and Company N together and the

total number of toys sold in 2020 by Company M is equal to (x/5)+(y/4), then find the total number of toys unsold in 2020 by Company M.

a) 729

b) 740

c) 750

d) 735

e) 755

6) Find the difference between the total number of unsold toys in 2019 from all companies together and the total number of unsold toys in 2018 from all companies together.

a) 250

b) 270

c) 260

d) 245

e) 280

7) If in the total toys sold by Company L, Company M, Company N and Company O in 2019 25%, 33.33%, 1/2 and 5/13 are defective, then find the average number of toys that are sold is non-defective in 2019 from all companies together.

a) 512.5

b) 510

c) 507.5

d) 515

e) 505.5

8) If the price of each toy sold in 2018 and 2019 from Company M is Rs.200 and Rs.275

respectively and the price of each unsold toy in 2018 and 2019 from Company M is reduced by 25% and 27.27% of the original price and then the toys are sold, then find the total amount acquired while selling the toys in 2018 and 2019 by Company M.

a) Rs.591200

b) Rs.591600

c) Rs.591100

d) Rs.591350

e) Rs.591400

9) The total number of toys produced by Company A in 2018 and 2019 is equal to the sum of the total number of toys produced in 2018 by Company L and Company O and the total number of toys produced in 2018 by Company A is 60% of the total number of toys produced in 2018 and 2019 by Company A. The total number of toys produced in 2019 by Company A is what percentage of the total number of toys produced in 2018 by Company A?

a) 66.66%

b) 70%

c) 33.33%

d) 78%

e) 75%

Direction (10-14): Read the following information carefully and answer the questions given below.

The given table chart shows the average number of Maths and Science books, average number of

Science and English books and the average number of English and Maths books available in four shops namely A, B, C and D.

Shops	Average number of Maths and Science books	Average number of Science and English books	Average number of English and Maths books
A	535	520	505
B	505	500	475
C	525	520	570
D	420	455	495

10) The price of each Maths book, Science book and English book in Shop C is Rs.550, Rs.600 and Rs.475 respectively. Find the total amount obtained by Shop C, while selling 11/23 of the Maths books, 17/19 of the science books and 3/5 of the English books in Shop C.

a) Rs.567125

b) Rs.567350

c) Rs.567400

d) Rs.567275

e) Rs.567200

11) The total number of books available in Shop E is 25% more than the average number of books available in Shop A and B together and the total number of maths books available in Shop E is equal to the average number of maths books available in Shop A, B and C. Find the difference between the total number of English books availble in Shop E and the total number of Science books available in Shop D, if the ratio of the total number of English books available in

Shop E to the total number of Science books available in Shop E is 3:2.

a) 445

b) 178

c) 280

d) 825

e) 923

12) The average number of Economics books available from all shops together is 522 and the average number of Economics books available in Shop A, B, and C is 556. Find the total number of Economics books available in Shop B, if the total number of Economics books available in Shop A is 5 more than the total number of Science books available in Shop A and the total number of Economics books available in Shop C is 20% less than the total number of English books available in Shop C.

a) 650

b) 640

c) 635

d) 628

e) 661

13) The total number of Maths books available in Shop B is what percentage more/less than the average number of Science books available in Shop A and B?

a) 35% less

b) 28% more

c) 38% less

d) 11% more

e) 40% less

14) Find the ratio between the total number of English books available in Shop B and C to the total number of Science and Maths books available in Shop C.

a) 51:58

b) 69:70

c) 71:72

d) 74:75

e) 32:33

Directions (15-19): Study the following information carefully and answer the questions.

The given pie chart shows the percentage distribution of total number of people in five different villages i.e. A, B, C, D and E.

% distribution of total number of people in five different villages
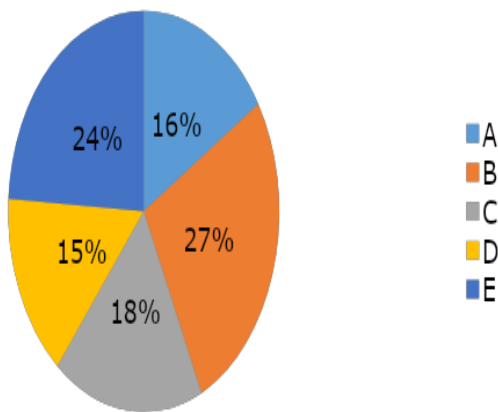
The given pie chart shows the percentage distribution of the number of males in five different villages.

% distribution of number of males in five different villages
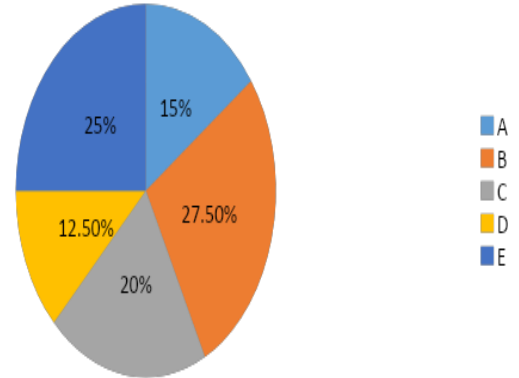
Note: Out of the total number of people in five different villages, 60% are males and the remaining 4800 are females.

15) Find the difference between the average number of males in villages A, C and E together and the average number of females in villages A, B and C together.

a) 500

b) 700

c) 400

d) 300

e) 900

16) Ratio of number of employed to unemployed males in village A is 7:2 respectively and number of unemployed females in village C is 25% more than that of village A. If the average number of employed males and females in village A is 680 and the number of employed males in village C is 180 more than that of unemployed males, then find the number of employed people in village C.

a) 1270

b) 1610

c) 1050

d) 1130

e) None of these

17) In village B, if the ratio of number of vaccinated to non-vaccinated males and females is 7:2 and 5:2 respectively, then the average number of vaccinated males and females is what percentage more than the number of non-vaccinated people?

a) 62.5%

b) 37.5%

c) 52.5%

d) 17.5%

e) None of these

18) Average number of males in villages D and F is equal to the number of males in village A and the number of females in village F is 16.67%

less than the number of females in village B, then find the average number of people in villages B, D and F together?

a) 2450

b) 2680

c) 2740

d) 2120

e) None of these

19) Number of literate people in village E is 1440 more than the number of illiterate people. If the number of literate males and females in village E is 11:7 respectively, then find the ratio of the number of illiterate females to males in village E.

a) 4:5

b) 7:6

c) 1:2

d) 5:3

e) None of these

Directions (20-24): Study the following information carefully and answer the questions.

The given pie chart shows the percentage distribution of total number of orders delivered by both Amazon and Flipkart in five different months i.e. January, February, March, April and May and also the table chart shows the ratio of number of orders delivered by Amazon and Flipkart in five different months.

Total number of orders delivered by both Amazon and Flipkart=7500
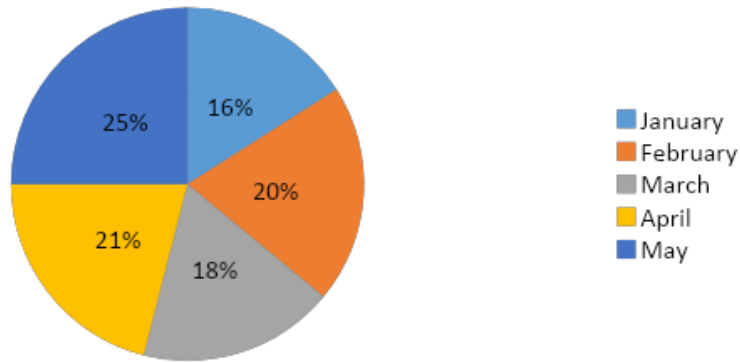
Year	Ratio of number of orders delivered by Amazon and Flipkart
January	13:p
February	3:7
March	7:8
April	5:4
May	3:p

Note: p is a prime number and value is less than 17.

20) Ratio of the number of orders delivered by Amazon to Ajio in March is 7:5 respectively. If the average number of orders delivered by Amazon, Flipkart and Ajio in March is (m+250), then which of the following statements is true?
A) (m/(7-p))=70
B) The number of orders delivered by Ajio in March is 290 less than the number of orders delivered by Flipkart in March.
C) m is equal to half the number of orders delivered by Flipkart in April.
a) All A, B and C are true
b) Only A is true

c) Only B is true
d) Only A and C are true
e) Only C is true

21) In April, the ratio of the number of orders delivered by Amazon is five times the number of orders Not delivered by Amazon and the number of orders not delivered in Flipkart is 28.56% out of the total number of orders delivered by Flipkart, then find the average number of orders received by Amazon and Flipkart together.
a) 912
b) 1362

c) 154

d) 975

e) None of these

22) Number of orders delivered by Amazon in February and March together is what percentage more than the average number of orders delivered by Flipkart in February and May together?

a) 20%

b) 60%

c) 36%

d) 55%

e) None of these

23) Number of orders delivered by both Amazon and Flipkart in June is 24% more than that of February. If the number of orders delivered by Amazon in June is equal to the average number of orders delivered by Amazon in April and May together, then find the number of orders delivered by Flipkart in June.

a) 650

b) 860

c) 700

d) 570

e) None of these

24) If the ratio of the number of orders delivered by Amazon in January for males to females is 8:5 respectively and the number of orders delivered by Amazon in March for males is 90 more than that of females, then find the number of orders delivered by Amazon in January and March for males.

a) 1200

b) 1800

c) 1000

d) 1600

e) 1500

Directions (25-28): Read the following information carefully and answer the questions. A certain quantity of dry fruits (almond, dates, and walnuts) are sold (in kg) in two different months i.e. March and April. In March, all dry fruits are sold for Rs.14000, the ratio of the quantity of almonds to walnuts sold in march is 5:6 and the cost price of almonds, dates and walnuts per kg is Rs.60, Rs.80, and Rs.70 respectively. The quantity of almonds sold in April is 40% less than that of March and the quantity of walnuts sold in March is 87.5% more than that of April. The ratio of the quantity of dates to walnuts sold in April is 3:2. The average quantity of almonds, dates and walnuts sold in April is 55 kg. In April, the marked price of dates is 40% more than the cost price and all the walnuts is sold for Rs.3600. The marked price of dates in April is equal to the cost price of walnuts in March and the cost price of almonds per kg in April is Rs.80.

25) If the marked price of the almonds per kg in April is 25% more than the cost price and the marked price of the walnuts in April is Rs.4800,

then find the average marked price of the almonds, dates and walnuts per kg in April?

a) Rs.90

b) Rs.75

c) Rs.100

d) Rs.80

e) None of these

26) If the quantity of almonds sold in May is 12% more than that of March, the ratio of the quantity of dates sold in March to May is 5:7 respectively and the quantity of walnuts sold in May is 25% more than the previous month. Then find the total quantity of dry fruits sold in May.

a) 90 kg

b) 150 kg

c) 200 kg

d) 110 kg

e) None of these

27) In March, 60% of the dates are sold at 15% profit and the remaining dates are sold at 40% profit, then find the overall profit obtained by selling dates.

a) Ra.160

b) Rs.100

c) Rs.120

d) Rs.800

e) None of these

28) The quantity of cashews sold in both months is 33.33% more than the average quantity of almonds sold in March and April. If the ratio of

the quantity of cashews sold in March to April is 2:3 respectively, then find the quantity of walnuts sold in April is how much more/less than the quantity of cashews sold in March.

a) 33 more

b) 16 more

c) 11 less

d) 42 more

e) 25 less

Directions (29-31): Find out the wrong number in the following number series.

29) 210, 304, 364, 436, 520, 616

a) 210

b) 304

c) 364

d) 436

e) 616

30) 512, 567, 502, 565, 492, 607

a) 512

b) 567

c) 565

d) 492

e) 607

31) 124, 64, 98, 256, 904, 4078

a) 124

b) 98

c) 256

d) 904

e) 4078

Direction (32-34): What will come in place of question mark (?) in the following questions.

32) $\sqrt{144}$ % of 1550 - 32^2 - 40% of 1500 = ? – 61^2 + $\sqrt{324}$ % of 2100

a) 1905

b) 1985

c) 1885

d) 1920

e) 1938

33) ? – 14.28% of 378 + 36.36% of 429 - 83.33% of 540 = 23^3 - 49^2

a) 11100

b) 10150

c) 10124

d) 10114

e) 10155

34) 76^2 – 88^2 - $\sqrt{(45^2+10^3)}$ = ? – 55% of 1600 + 34^2

a) -2345

b) -2299

c) -2350

d) -2455

e) -2385

Directions (35-37): Following questions contain two statements as statement I and statement II. You have to determine which statement/s is/are necessary to answer the question and give answer as,

35) Find the sum of the perimeter of the rectangle and the perimeter of the square.

Statement I: The difference between the length of the rectangle and the side of the square is 20m.

Statement II: The ratio of the length of the rectangle to the breadth of the rectangle is 4:3 and the radius of the circle is 20% less than the sum of the length and the breadth of the rectangle.

a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question

b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question

c) The data either in statement I alone or in statement II alone is sufficient to answer the question

d) The data given in both statements I and II together are not sufficient to answer the question

e) The data given in both statements I and II together are necessary to answer the question.

36) Find the total time taken to complete the work, if P starts the work and leaves after 10 days, Q joins the work and leaves after some days and R works for the last 15 days.

Statement I: P and Q together can complete a work in 40/3 days and Q and R together can complete the same work in 12 days.

Statement II: P and R can complete the same work in 120/7 days.

a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question

b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question

c) The data either in statement I alone or in statement II alone is sufficient to answer the question

d) The data given in both statements I and II together are not sufficient to answer the question

e) The data given in both statements I and II together are necessary to answer the question.

37) Find the rate of interest at which A invests.

Statement I: A invests a certain amount Rs.x in Simple interest and Rs.x+1000 in compound interest and invests for the same number of years and at the same interest.

Statement II: B invests Rs.x in Simple interest at 15% per annum for 3 years and obtains an interest of Rs.6750 and A invests Rs.x+3000 at R% rate of interest at compound interest for 2 years and at the end of two years obtains a total amount of Rs.30420.

a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question

b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question

c) The data either in statement I alone or in statement II alone is sufficient to answer the question

d) The data given in both statements I and II together are not sufficient to answer the question

e) The data given in both statements I and II together are necessary to answer the question.

38) The age A after 8 years is equal to the age of B after 12 years and the ratio of the age of B after 9 years to the age of C after 5 years is 5:11. 70% of the present age of C is equal to the average of the present age of D and E which is 35 years and the difference between the present age of D and E whose age is less than the former is 6 years. Find the difference between the average age of A, C, and E after 10 years and the average age of B and D before 8 years.

a) 20 years

b) 30 years

c) 40 years

d) 35 years

e) 25 years

39) Pipe A and Pipe B can fill a tank in 200/13 minutes and Pipe A alone can fill the tank in --- minutes. Pipe C and Pipe D are outlet pipes and both pipes can empty the tank in 100/7 minutes and the ratio of the efficiency of Pipe C to Pipe D is 2:5. Pipe B and pipe D can fill/empty the tank in --- minutes.

A) 50 minutes, 150 minutes

B) 40 minutes, 100 minutes

C) 20 minutes, 200/9 minutes

a) Only B

b) Only A and B

c) Only A

d) All A, B and C

e) Only B and C

40) Train A crosses a standing man in 15 seconds and the length of Train B is 300m more than the length of Train A. Train B crosses a pole in 35 sec and a bridge of length 450 m in 50 seconds. If the speed of the car is 20% more than the average speed of Train A and Train B, then find the distance travelled by car in 120 seconds.

a) 4500 m

b) 4800 m

c) 5760 m

d) 4200 m

e) 4950 m

41) Total number of cars produced in a plant is 30000 and four types of coloured cars are produced namely White, Black, Silver and Grey. 25% of the cars produced are in black colour. Out of the remaining cars produced, 30% of the cars are produced in white colour and the ratio between the total number of white colour cars produced to the total number of grey cars produced is 30:41. Find the ratio between the total number of silver cars produced to the total number of white cars produced.

a) 31:33

b) 35:37

c) 39:41

d) 29:27

e) 29:30

42) The ratio of the base of the right-angled triangle to the height of the right angled triangle is 5:6 and the area of the right angled triangle is 735 m². The volume of the sphere is 38808 m³ and the height of the cylinder is 28.56% less than the height of the right angled triangle and the radius of the cylinder is 20% more than the height of the cylinder. Find the sum of the curved surface area of sphere and cylinder.

a) 3924Π m²

b) 4024Π m²

c) 3824Π m²

d) 3624Π m²

e) 3724Π m²

Directions (43-45): Following questions have two quantities as Quantity I and Quantity II. You have to determine the relationship between them and give an answer as,

43)

Quantity I: The downstream speed of boat A is 10 km/hr more than the downstream speed of boat B. The sum of the downstream speed of boat A and upstream speed of boat B is 90 km/hr, then find the speed of boat B in still water if both travel in the same river.

Quantity II: The speed of boat A in still water is 40 km/hr more than the speed of the stream and the speed of boat B in still water is 30 km/hr more than the speed of the stream. If both boats travel in the same river, then find the average upstream speed of boats A and B?

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II (or) Relation cannot be established

44)

Quantity I: The shopkeeper had two jewel boxes for Rs.2250 for each. He sold one at 40% profit and another one at 16.67% loss and then find the overall profit/loss on his whole transaction?

Quantity II: Ratio of the marked price and the cost price of a printer is 8:5. If the shopkeeper gives a discount of Rs.2160 on the marked price and he gets the profit of 12%, then find the profit obtained by the printer?

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II or Relation cannot be established

45)

Quantity I: In bag A, 19 green balls, 11 yellow balls and some red balls. If the probability of selecting a red ball from bag A is 3/5. Then the number of red balls in bag A is what percentage of the total number of balls?

Quantity II: In bag B, the average number of blue and black balls is 28. If 4 blue and 8 black balls

are added to bag B and the ratio of the number of blue balls to black balls in bag B becomes 9:8, then the number of black balls in bag B initially is what percentage of the number of blue balls in the same bag initially?

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II or Relation cannot be established

46) The average cost price of all products in an electric shop is Rs.___. If the cost of a fan and a bulb is increased by Rs.550 and Rs.290 respectively and the average becomes Rs.70 more, then the total number of products in an electric shop is ____.

A) Rs.750, 12

B) Rs.1200, 8

C) Rs.510, 7

a) Only A

b) Only A and B

c) Only C

d) Only A and C

e) All A, B and C

47) The quantity of milk in glass A is 20% more than that of glass B and the ratio of the quantity of milk to water in glasses A and B is 9:2 and 5:2 respectively. The quantity of milk in glass C is equal to the average of the quantity of milk in glasses A and B. If the difference between the

total quantity of glass A and B is 4 liters, then find the ratio of the average quantity of milk in glass A and glass B together to the quantity of water in glass B.

a) 9:7

b) 8:5

c) 7:6

d) 11:4

e) None of these

48) Liam and Noah started a business with an investment of Rs.x and Rs.9000 respectively. After 16 months, Liam doubled his investment. After 4 more months, Noah withdrew 33(1/3)% of his investment. At the end of three years, the total profit of the business is Rs.8700 and the profit share of Noah is Rs.3450, then find the value of x.

a) Rs.12000

b) Rs.7500

c) Rs.10800

d) Rs.10000

e) None of these

49) Ratio of the monthly income of A to B is 12:7 and the monthly income of A is 25% more than that of C. Ratio of the savings of A to B is 15:11 and the expenditure of A is Rs.13500. If the difference between the monthly income of B and C is Rs.3900, then the expenditure of B is what percentage of the monthly income of C?

a) 50%

b) 36%

c) 10%

d) 25%

e) None of these

50) Vani invested Rs.P in a simple interest at the rate of 15% per annum for 7 years. Gokila invested Rs.15000 in a compound interest at the rate of 1st year is 20%, 2nd year is 10% and 3rd year is 15%. If the total interest received by Gokila and Vani is equal, then find the value of P.

a) Rs.9100

b) Rs.6500

c) Rs.7400

d) Rs.8800

e) None of these

Answer Key with Explanation

Directions (1-4):

The total number of passengers travelling in Bus A = 24

The total number of passengers travelling in Bus A in round 1 = 9

The total number of passengers travelling in Bus A in round 2 & round 3 =24-9 = 15

The ratio of the total number of passengers travelling in round 2 by Bus A to B is 4:3.

Let the total number of passengers travelling in round 2 by Bus A be 4x

Let the total number of passengers travelling in round 2 by Bus B be 3x

If x=1 then the total number of passengers travelling in round 2 by Bus A is 4 and the total number of passengers travelling in round 2 by Bus B is 3, but it does not satisfy the given condition that Sum of the total number of passengers in round 1 from both Bus A and B is equal to the sum of the total number of passengers in round 2 from both Bus A and B. So, x=1 is not possible.

If x=2 then the total number of passengers travelling in round 2 by Bus A is 8 and the total number of passengers travelling in round 2 by Bus B is 6 and this value satisfies the given condition.

If x=3 then the total number of passengers travelling in round 2 by Bus A is 12 and the total number of passengers travelling in round 2 by Bus B is 9 and this value does not satisfy the given condition.

The total number of passengers travelling in Bus A in round 2 = 8

The total number of passengers travelling in Bus A in round 3 = 15-8 = 7

The sum of the total number of passengers in round 2 from both Bus A and B
= 8+6 =14

The sum of the total number of passengers in round 1 from Bus B = 14-9 = 5

The sum of the total number of passengers in round 3 from Bus B = 6 (as the total number of passengers in any two rounds is same)

Bus	Round 1	Round 2	Round 3
A	9	8	7
B	5	6	6

1) Answer: B

The price of a ticket for each passenger in round 1 for return journey = 100-100*25/100 = 100-25 = 75

The price of a ticket for each passenger in round 2 for return journey = 320-320*25/100 = 320-80 = 240

The price of a ticket for each passenger in round 3 for return journey = 280-280*25/100 = 280-70 = 210

Revenue obtained by Bus A in round 1 = (9*100)+(9*75) = Rs.1575

Revenue obtained by Bus B in round 2 = (6*320)+(6*240) = Rs.3360

Revenue obtained by Bus A in round 3 = (7*280)+(7*210) = Rs.3430

Total revenue = 1575+3360+3430 = Rs.8365

2) Answer: D

The total number of passengers in round 1 from Bus A paying through offline mode
= 9 – (9*33.33/100) = 6

The total number of passengers in round 2 from Bus A paying through offline mode
= 8 – (8*25/100) = 6

The total number of passengers in round 3 from Bus A paying through offline mode
= 7 – (7*42.85/100) = 7 – (7*3/7) = 4

The total number of passengers in round 1 from Bus B paying through online mode
= 5-(5*2/5) = 3

The total number of passengers in round 2 from Bus B paying through online mode

= 6 – (6*1/3) = 4

The total number of passengers in round 3 from Bus B paying through online mode

= 6 – (6*1/2) = 3

Required total = 6+6+4+3+4+3 = 26

3) Answer: A

Required ratio = (9+5):(6+6) = 7:6

4) Answer: C

The total number of passengers travelling in Bus C in round 1 = 5-(5*20/100) = 4

The ratio of total number of passengers travelling in Bus C all round together = 18

The total number of travelling passengers in Bus C in round 2 and round 3 = 18-4 = 14

Direction (5-9):

Total number of toys produced in 2018 and 2019 in Company L = 1420*2 = 2840

Total number of toys produced in 2018 in Company L = 1300

Total number of toys produced in 2019 in Company L = 2840-1300 = 1540

Total number of toys produced in 2018 and 2019 in Company M = 1390*2 = 2780

Total number of toys produced in 2018 in Company M = 1530

Total number of toys produced in 2019 in Company M = 2780-1530 = 1250

Total number of toys produced in 2018 and 2019 in Company N = 1510*2 = 3020

Total number of toys produced in 2018 in Company N = 1600

Total number of toys produced in 2019 in Company N = 3020-1600 = 1420

Total number of toys produced in 2018 and 2019 in Company O = 1370*2 = 2740

Total number of toys produced in 2018 in Company O = 1250

Total number of toys produced in 2019 in Company O = 2740-1250 = 1490

Total number of toys sold in 2018 = 3440

x-275+x+(x/2)+x-765 = 3440

x=1280

Total number of toys sold in 2018 in Company L = x-275 =1280-275 = 1005

Total number of toys unsold in 2018 in Company L = 1300-1005 = 295

Total number of toys sold in 2018 in Company M = x = 1280

Total number of toys unsold in 2018 in Company M = 1530-1280 = 250

Total number of toys sold in 2018 in Company N = x/2 = 1280/2 = 640

Total number of toys unsold in 2018 in Company N = 1600-640 = 960

Total number of toys sold in 2018 in Company O = x-765 = 1280-765 = 515

Total number of toys unsold in 2018 in Company O =1250-515 = 735

Total number of toys sold in 2019 = y

(y/3)+(y/5)+((y/5)+250)+((y/3)-462 = y

y = 3180

Total number of toys sold in 2019 in Company L
= y/3 = 3180/3 = 1060

Total number of toys unsold in 2019 in Company L = 1540-1060 = 480

Total number of toys sold in 2019 in Company M = y/5 = 3180 = 636

Total number of toys unsold in 2019 in Company M = 1250-636 = 614

Total number of toys sold in 2019 in Company N = (y/5)+250 = 636+250 = 886

Total number of toys unsold in 2019 in Company N = 1420-886 = 534

Total number of toys sold in 2019 in Company O = (y/3)-462 = 1060-462 = 598

Total number of toys unsold in 2019 in Company O = 1490-598 = 892

5) Answer: A

The average number of toys produced in 2019 by Company M and Company N
= (1250+1420)/2 = 1335

The total number of toys produced in 2020 by Company M
= 1335+1335*33.33/100 = 1780

The total number of toys sold in 2020 by Company M
= (x/5)+(y/4) = (1280/5)+(3180/4) = 256+795 = 1051

The total number of toys unsold in 2020 in Company M = 1780-1051 = 729

6) Answer: E

The total number of unsold toys in 2018 from all companies together

= 295+250+960+735 = 2240

The total number of unsold toys in 2019 from all companies together

= 480+614+534+892 = 2520

Required difference = 2520-2240 = 280

7) Answer: C

Defective toys sold by Company L in 2019 = 1060*25/100 = 265

Non-Defective toys sold by Company L in 2019 = 1060-265 = 795

Defective toys sold by Company M in 2019 = 636*33.33/100 = 212

Non-Defective toys sold by Company M in 2019 = 636-212 = 424

Defective toys sold by Company N in 2019 = 886*1/2 = 443

Non-Defective toys sold by Company N in 2019 = 886-443 = 443

Defective toys sold by Company O in 2019 = 598*5/13 = 230

Non-Defective toys sold by Company O in 2019 = 598-230 = 368

The average number of toys that are sold is non-defective in 2018 from all companies together = (795+424+443+368)/4 = 507.5

8) Answer: A

Total amount acquired when selling the toys in original price in 2018 by Company M
= 1280*200 = Rs.256000

Total amount acquired when selling the toys in original price in 2019 by Company M
= 636*275 = Rs.174900

Reduced amount while selling the toys in 2018 = 200-(200*25/100) = Rs.150

Reduced amount while selling the toys in 2019 = 275-(275*27.27/100)

= 275-(275*3/11) = 200

Total amount acquired when selling the toys in reduced price in 2018 by Company M

= 250*150 = Rs.37500

Total amount acquired when selling the toys in reduced price in 2019 by Company M

= 614*200 = Rs.122800

The total amount acquired while selling the toys in 2018 and 2019 by Company M

= 256000+174900+37500+122800 = Rs.591200

9) Answer: A

The total number of toys produced by Company A in 2018 and 2019 = 1300+1250 = 2550

The total number of toys produced in 2018 by Company A is 60% of the total number of toys produced in 2018 and 2019 by Company A

The total number of toys produced in 2018 by Company A = 60x

The total number of toys produced in 2019 by Company A = 40x

100x = 2550

x = 25.5

The total number of toys produced in 2018 by Company A = 60x = 1530

The total number of toys produced in 2019 by Company A = 40x = 1020

Required percentage = 1020/1530 *100 = 66.66%

Direction (10-14):

Shop A

Average number of Maths and Science books available = 535

Total number of Maths and Science books available = 535*2 = 1070

Average number of Science and English books available = 520

Total number of Science and English books available = 520*2 = 1040

Average number of English and Maths books available = 505

Total number of English and Maths books available = 505*2 = 1010

Total number of Maths, Science and English = (1070+1040+1010)/2 = 1560

Total number of Maths books available = 1560-1040 = 520

Total number of Science books available = 1560-1010 = 550

Total number of English books available = 1560-1070 = 490

Shop B

Average number of Maths and Science books available = 505

Total number of Maths and Science books available = 505*2 = 1010

Average number of Science and English books available =500

Total number of Science and English books available = 500*2 = 1000

Average number of English and Maths books available = 475

Total number of English and Maths books available = 475*2 = 950

Total number of Maths, Science and English = (1010+1000+950)/2 = 1480

Total number of Maths books available = 1480-1000 = 480

Total number of Science books available = 1480-950 = 530

Total number of English books available = 1480-1010 = 470

Shop C

Average number of Maths and Science books available = 525

Total number of Maths and Science books available = 525*2 = 1050

Average number of Science and English books available = 520

Total number of Science and English books available = 520*2 = 1040

Average number of English and Maths books available = 570

Total number of English and Maths books available = 570*2 = 1140

Total number of Maths, Science and English = (1050+1040+1140)/2 = 1615

Total number of Maths books available = 1615-1040 = 575

Total number of Science books available = 1615-1140 = 475

Total number of English books available = 1615-1050 = 565

Shop D

Average number of Maths and Science books available = 420

Total number of Maths and Science books available = 420*2 = 840

Average number of Science and English books available = 455

Total number of Science and English books available = 455*2 = 910

Average number of English and Maths books available = 495

Total number of English and Maths books available = 495*2 = 990

Total number of Maths, Science and English = (840+910+990)/2 = 1370

Total number of Maths books available = 1370-910 = 460

Total number of Science books available = 1370-990 = 380

Total number of English books available = 1370-840 = 530

Shops	Total books	Maths books	Science books	English books
A	1560	520	550	490
B	1480	480	530	470
C	1615	575	475	565
D	1370	460	380	530

10) Answer: D

Total number of Maths books sold by Shop C = 575*11/23 = 275

Total cost obtained by selling Maths books by Shop C = 275*550 = Rs.151250

Total number of Science books sold by Shop C = 475*17/19 = 425

Total cost obtained by selling Science books by Shop C = 425*600 = Rs.255000

Total number of English books sold by Shop C = 565*3/5 = 339

Total cost obtained by selling English books by Shop C = 339*475 = Rs.161025

Total cost obtained by Shop C = 151250+255000+161025 = Rs.567275

11) Answer: A

The average number of books available in Shop A and B = (1560+1480)/2 = 1520

The total number of books available in Shop E = 1520+1520*25/100 = 1900

The average number of maths books available in Shop A, B and C = (520+480+575)/3 = 525

The total number of Maths books available in Shop E = 525

The total number of Science and English books available in Shop E = 1900-525 = 1375

The total number of Science books available in Shop E = 1375*2/5 = 550

The total number of English books available in Shop E = 1375*3/5 = 825

Required difference = 825-380 = 445

12) Answer: E

The average number of Economics books available from all shops together = 522

The total number of Economics books available from all shops together = 522*4 = 2088

The average number of Economics books available in Shop A, B, and C = 556

The total number of Economics books available in Shop A, B, and C = 556*3 = 1668

The total number of Economics books available in Shop D = 2088-1668 = 420

The total number of Economics books available in Shop A = 550+5 = 555

The total number of Economics books available in Shop C = 565-565*20/100 = 452

The total number of Economics books available in Shop B = 1668-(555+452) = 661

13) Answer: D

The average number of Science books available in Shop A and B = (550+530)/2 = 540

Required percentage = (540-480)/540*100 = 11% more

14) Answer: B

Required ratio = (470+565):(575+475) = 207:210 = 69:70

Directions (15-19):

Total number of people in five different villages=4800*100/40=12000

Number of males in five different villages=12000-4800=7200

Total number of people in village A=12000*16/100=1920

Number of males in village A=7200*15/100=1080

Number of females in village A=1920-1080=840

Total number of people in village B=12000*27/100=3240

Number of males in village B= 7200*27.5/100=1980

Number of females in village B=3240-1980=1260

Total number of people in village C=12000*18/100=2160

Number of males in village C=7200*20/100=1440

Number of females in village C=2160-1440=720

Total number of people in village D=12000*15/100=1800

Number of males in village D=7200*12.5/100=900

Number of females in village D=1800-900=900

Total number of people in village E=12000*24/100=2880

Number of males in village E=7200*25/100=1800

Number of females in village E=2880-1800=1080

Village	Total number of people	Number of males	Number of females
A	1920	1080	840
B	3240	1980	1260
C	2160	1440	720
D	1800	900	900
E	2880	1800	1080

15) Answer: A

The average number of males in villages A, C and E=(1080+1440+1800)/3=1440

The average number of females in villages A, B and C=(840+1260+720)/3=940

Required difference=1440-940=500

16) Answer: D

Number of unemployed males in village A=1080*2/9=240

Number of employed people in village A=680*2=1360

Number of unemployed people in village A=1920-1360=560

Number of unemployed females in village A=560-240=320

Number of unemployed females in village C=320*125/100=400

Number of employed females in village C= 720 – 400 = 320

Number of employed males in village C=x

Number of unemployed males in village C=y

x+y=1440

x-y=180

x=810

y=630

Number of employed people in village C=810+320=1130

17) Answer: C

Number of vaccinated males in village B=1980*7/(7+2)=1540

Number of non-vaccinated males in village B=1980-1540=440

Number of vaccinated females in village B=1260*5/(5+2)=900

Number of non-vaccinated females in village B=1260-900=360

The average number of vaccinated males and females in village B=(1540+900)/2=1220

Number of non-vaccinated people in village B=440+360=800

Required percentage=(1220-800)/800*100=52.5%

18) Answer: A

Number of males in villages D and F=1080*2=2160

Number of males in village F=2160-900=1260

Number of females in village F=83.33% of 1260=1260*5/6=1050

Total number of people in village F=1260+1050=2310

Required average=(3240+1800+2310)/3=2450

19) Answer: C

Number of literate people in village E=a

Number of illiterate people in village E=b

a+b=2880

a-b=1440

a=2160

Number of literate males in village E=2160*11/(11+7)=1320

Number of illiterate males in village E=1800-1320=480

Number of literate females in village E=2160-1320=840

Number of illiterate females in village E=1080-840=240

Required ratio=240:480=1:2

Directions (20-24):

Total number of orders delivered by both Amazon and Flipkart in January =7500*16/100=1200

Total number of orders delivered by both Amazon and Flipkart in February =7500*20/100=1500

Total number of orders delivered by both Amazon and Flipkart in March=7500*18/100=1350

Total number of orders delivered by both Amazon and Flipkart in April=7500*21/100=1575

Total number of orders delivered by both Amazon and Flipkart in May=7500*25/100=1875

Number of orders delivered by Amazon in February=1500*3/(3+7)=450

Number of orders delivered by Flipkart in February=1500-450=1050

Number of orders delivered by Amazon in March=1350*7/(7+8)=630

Number of orders delivered by Flipkart in March=1350-630=720

Number of orders delivered by Amazon in April=1575*5/(5+4)=875

Number of orders delivered by Flipkart in April=1575-875=700

Possible values of p is 2, 3, 5, 7, 11, 13

p=2 =>

Number of orders delivered by Amazon in January=1200*13/(13+2)=1040

Number of orders delivered by Flipkart in January=1200-1040=160

Number of orders delivered by Amazon in May=1875*3/(3+2)=1125

Number of orders delivered by Flipkart in May=1875-1125=750

p=3=>

Ratio of number of orders delivered by Amazon and Flipkart in May=3:3 (not possible)

p=5 =>

Number of orders delivered by Amazon in January=1200*13/(13+5)=866.67 (not possible)

p=7 =>

Number of orders delivered by Flipkart in May=1875*3/(3+7)=562.5 (not possible)

P=11 =>

Number of orders delivered by Flipkart in May=1875*3/(3+11)=401.78 (not possible)

p=13 =>

Number of orders delivered by Flipkart in May=1875*3/(3+13)=351.56 (not possible)

Month	Total number of orders delivered by both Amazon and Flipkart	Number of orders delivered by Amazon	Number of orders delivered by Flipkart
January	1200	1040	160
February	1500	450	1050
March	1350	630	720
April	1575	875	700
May	1875	1125	750

20) Answer: D

P=2

Number of orders delivered by Ajio in March=630*5/7=450

M+250=(630+720+450)/3

m=600-250

m=350

From option (A)

(350/7-2)=70

70=70

This satisfied the given condition.

From option (B)

Number of orders delivered by Ajio in March is 270 less than the number of orders delivered by Flipkart in March.

This does not satisfy the given condition.

From option (C)

m=350

Half of number of orders delivered by Flipkart in April=700/2=350

This satisfied the given condition.

21) Answer: D

Number of order not delivered in Amazon in April=875*1/5=175

Total number of orders received by Amazon in April=175+875=1050

Number of order not delivered in flipkart in April =200

Total number of orders received by Flipkart in April=900

Required average=(1050+900)/2=975

22) Answer: A

The average number of orders delivered by Flipkart in February and May=(1050+750)/2=900

Number of orders delivered by Amazon in February and March=450+630=1080

Required percentage=(1080-900)/900*100=20%

23) Answer: B

Total number of orders delivered by both Amazon and Flipkart in June

=1500*124/100=1860

The average number of orders delivered by Amazon in April and May=(875+1125)/2=1000

Number of orders delivered by Flipkart in June=1860-1000=860

24) Answer: C

Number of orders delivered by Amazon in January for males=1040*8/(8+5)=640

Number of orders delivered by Amazon in March for males=a

Number of orders delivered by Amazon in March for females=b

a+b=630

a-b=90

a=360

b=270

Required sum=640+360=1000

Directions (25-28):

The quantity of almonds sold in March=5x kg

The quantity of walnuts sold in March=6x kg

The quantity of almonds sold in April=5x*60/100=3x kg

The quantity of walnuts sold in April=6x*100/187.5=6x*8/15=3.2x kg

The quantity of dates sold in April=3.2x*3/2=4.8x kg

3x+3.2x+4.8x=55*3

x=165/11

x=15

The quantity of almonds sold in April=3*15=45 kg

The quantity of dates sold in April=4.8*15=72 kg

The quantity of walnuts sold in April=3.2*15=48 kg

The quantity of almonds sold in March=5*15=75 kg

The quantity of walnuts sold in March=6*15=90 kg

The quantity of dates sold in March=d kg

75*60+d*80+90*70=14000

d*80=3200

d=40 kg

The marked price of dates per kg in April=Rs.70

The cost price of dates per kg in April=70*100/140=Rs.50

The cost price of almonds per kg in April=Rs.80

The cost price of walnuts per kg in April=3600/48=Rs.75

Dry Fruits	March		April	
	Quantity (in kg)	Cost price per kg (in Rs.)	Quantity (in kg)	Cost price per kg (in Rs.)
Almonds	75	60	45	80
Dates	40	80	72	50
Walnuts	90	70	48	75

25) Answer: A

The marked price of dates per kg in April=Rs.70

The marked price of almonds per kg in April=80*125/100=Rs.100

The marked price of walnuts per kg in April=4800/48=Rs.100

Required average=(70+100+100)/3=Rs.90

26) Answer: C

The quantity of almonds sold in May=75*112/100=84 kg

The quantity of dates sold in May=40*7/5=56 kg

The quantity of walnuts sold in May=48*125/100=60 kg

Required total=84+56+60=200 kg

27) Answer: D

60% of the dates sold in March=40*60/100=24 kg

40% of the dates sold in March=40*40/100=16 kg

Overall profit=24*80*115/100+16*80*140/100-40*80=4000-3200=Rs.800

28) Answer: B

The average quantity of almonds in March and April=(75+45)/2=60 kg

The quantity of cashews sold in both months=60*133.33/100=60*4/3=80 kg

The quantity of cashews sold in March=80*2/(2+3)=32 kg

Required difference=48-32=16 more

29) Answer: A

256+(40*1.2)=304

304+(40*1.5)=364

364+(40*1.8)=436

436+(40*2.1)=520

520+(40*2.4)=616

30) Answer: C

512+11*5=567

567-13*5=502

502+17*5=**587**

587-19*5=492

492+23*5=607

31) Answer: B

124*0.5+2=64

64*1.5+4=**100**

100*2.5+6=256

256*3.5+8=904

904*4.5+10=4078

32) Answer: A

$\sqrt{144}$ % of 1550 - 32^2 - 40% of 1500 = ? – 61^2 + $\sqrt{324}$ % of 2100

12/100 * 1550 – 1024 – 40/100 * 1500 = ? – 3721 + 18/100 * 2100

186 – 1024 – 600 = ? – 3721 + 378

? = 1905

33) Answer: D

? – 14.28% of 378 + 36.36% of 429 – 83.33% of 540 = 23^3 - 49^2

? – 1/7*378 + 4/11*429 – 5/6*540 = 12167 - 2401

? – 54 + 4*39 – 5*90 = 12167 – 2401

? = 10114

34) Answer: B

$76^2 - 88^2 - \sqrt{(45^2+10^3)} = ? - 55\%$ of $1600 + 34^2$

$5776 - 7744 - \sqrt{(2025+1000)} = ? - 55*16 + 1156$

$? = -2299$

35) Answer: D

From statement I,

The difference the length of the rectangle and the side of thesquare is 20m

So, statement I alone is not sufficient to answer the question.

From statement II,

Length of the rectangle = 4x

Breadth of the rectangle = 3x

Radius of the circle = 7x-(7x*20/100) = 28x/35

So, statement II alone is not sufficient to answer the question.

36) Answer: E

From statement I,

(1/P) + (1/Q) = 3/40

(1/Q) + (1/R) = 1/12

So, statement I alone is not sufficient to answer the question.

From statement II,

(1/R) + (1/P) = 7/120

So, statement II alone is not sufficient to answer the question.

From I and II,

2 ((1/P) + (1/Q) + (1/R)) = (3/40)+(1/12)+(7/120)

(1/P) + (1/Q) + (1/R) = 13/120

1/P = 13/120 – 1/12 = 1/40, P alone = 40 days

1/Q = 13/120 – 7/120 = 1/20, Q alone = 20 days

1/R = 13/120 – 3/40 = 1/30, R alone = 30 days

Total efficiency = 120 works

Efficiency of P alone = 3

Efficiency of Q alone = 6

Efficiency of R alone = 4

P's work done = 3*10 = 30

Remaining work = 120-30 = 90

R's work done = 4*15 = 60

Remaining work = 90-60 = 30

Q works for = 30/6 = 5 days

Total time taken = 10+5+15 = 30 days

37) Answer: B

From statement I,

Investment years = n years

Rate of interest = R%

S.I principle = Rs.x

C.I principle = Rs.x+1000

So, statement I alone is not sufficient to answer the question.

From statement II,

(x * 15*3)/100 = 6750

x = Rs.15000

x+3000 = Rs.18000

Interest received by A = 30420-18000 = 12420

$18000((1+(R/100)^2 - 1) = 12420$

R = 30%

So, statement II alone is sufficient to answer the question.

38) Answer: E

Average age of D and E = 70

D+E = 70

D-E =6

Present age of D = 38 years

Present age of E = 32 years

Present age of C = 35*70/100 = 50 years

Age of C after 5 years = 55 years

The age of B after 9 years = 5*55/11 = 25 years

Present age of B = 16 years

Age of B after 12 years = 28 years

Present age of A = 20 years

Age of A after 10 years = 20+10 = 30 years

Age of C after 10 years = 50+10 = 60 years

Age of E after 10 years = 32+10 = 42 years

Age of B before 8 years = 16-8 = 8 years

Age of D before 8 years = 38-8 = 30 years

Required difference = (30+60+42)/3 – (8+30)/2 = 25 years

39) Answer: A

From Option (B),

(1/A)+(1/B) = 13/200

(1/40)+(1/B) = 13/200

(1/B) = 1/25

The ratio of the efficiency of Pipe C to Pipe D is 2:5

(1/5x)+(1/2x) = 7/100

(1/x) = (1/10)

C can empty the tank in 50 minutes

D can empty the tank in 20 minutes

(1/D)-(1/B) = (1/20)-(1/25) = 1/100

Tank emptied in 100 minutes

This is satisfied

From Option (A),

(1/A)+(1/B) = 13/200

(1/50)+(1/B) = 13/200

(1/B) = 9/200

The ratio of the efficiency of Pipe C and Pipe D is 2:5

(1/5x)+(1/2x) = 7/100

(1/x) = (1/10)

C can empty the tank in 50 minutes

D can empty the tank in 20 minutes

(1/D)-(1/B) = 1/20 - (9/200) = 1/200

This is not satisfied

From Option (C),

(1/A)+(1/B) = 13/200

(1/20)+(1/B) = 13/200

(1/B) = 3/200

The ratio of the efficiency of Pipe C and Pipe D is 2:5

(1/5x)+(1/2x) = 7/100

(1/x) = (1/10)

C can empty the tank in 50 minutes

D can empty the tank in 20 minutes

(1/D)-(1/B) = (1/20)-(3/200) = 7/200

This is not satisfied.

40) Answer: C

Length of Train A = x-300

Length of Train B = x

Train B crosses a pole in 35 sec and a bridge of length 450 m in 50 seconds

x/35 = (x+450)/50

x=1050 m

Length of Train B = x = 1050m

Length of Train A = 1050-300 = 750 m

Speed of the Train B = 1050/35 = 30m/s

Speed of Train A = 750/15 = 50m/s

Speed of car = (50+30)/2 *120/100 = 48m/s

Total distance covered by car = 48*120 = 5760m

41) Answer: E

The total number of cars produced in a plant = 30000

The total number of black cars produced in a plant = 30000*25/100 = 7500

The total number of (white+silver+grey) cars produced in a plant

= 30000-7500 = 22500

The total number of white cars produced in a plant = 22500*30/100 = 6750

The total number of (silver+grey) cars produced in a plant = 22500-6750 = 15750

The total number of grey cars produced in a plant = 6750*41/30 = 9225

The total number of silver cars produced in a plant = 15750-9225 = 6525

Required ratio = 6525:6750 = 29:30

42) Answer: A

Base of the right angled triangle = 5x

Height of the right angled triangle = 6x

½ * b * h = 735

½ * 5x * 6x = 735

x = 7m

Base of the right angled triangle = 5*7 = 35m

Height of the right angled triangle = 6*7 = 42m

Volume of the sphere = 38808

$\frac{4}{3} * \Pi * r^3 = 38808$

Radius of the sphere = 21m

Height of the cylinder = 42-42(28.56/100) = 30m

Radius of the cylinder = 30+30*20/100 = 36m

Curved surface area of sphere = $4 \Pi r^2 = 4 * 22/7 * 21 * 21 = 1764\Pi$ m²

Curved surface area of cylinder = $2\Pi rh$ = 2*22/7*36*30 = 2160Π m²

Required total = 1764Π+2160Π = 3924Π m²

43) Answer: A

From quantity I,

Speed of the stream=x

Speed of boat A in still water=y

Speed of boat B in still water=z

Downstream speed of boat A=(y+x) km/hr

Downstream speed of boat B=(z+x) km/hr

Upstream speed of boat B=(z-x) km/hr

(y+x)-(z+x)=10

y-z=10 ---- (1)

(y+x)+(z-x)=90

y+z=90 ---- (2)

(1)+(2)

2y=100

y=50

z=40

Speed of boat in still water B=40 km/hr

From quantity II,

Speed of the stream=s

Speed of boat A=(s+40) km/hr

Speed of boat B=(s+30) km/hr

Upstream speed of boat A=s+40-s=40 km/hr

Upstream speed of boat B=s+30-s=30 km/hr

Required average=(40+30)/2=35 km/hr

Quantity I > Quantity II

44) Answer: C

From quantity I,

CP of a jewel box=Rs.2250

Profit obtained on whole

transaction=2250*140/100+2250*83.33/100-

2250*2

=3150+2250*5/6-4500

=Rs.525

From quantity II,

CP of a printer=5x

MP of a printer=8x

(8x-2160)-5x=5x*12/100

3x-2160=0.6x

2.4x=2160

x=900

CP of a printer=5*900=R.4500

Profit obtained by printer=4500*12/100=Rs.540

Quantity II > Quantity I

45) Answer: C

From quantity I,

The number of red balls in bag A=r

The total number of balls in bag

A=19+11+r=30+r

$rC_1/(30+r)C_1$=3/5

r/(30+r)=3/5

5r=90+3r

2r=90

r=45

The total number of balls in bag A=30+45=75

Required percentage=45/75*100=60%

From quantity II,

The total number of balls in bag B=28*2=56

The number of blue balls in bag B=x

The number of black balls in bag B=56-x

(x+4)/(56-x+8)=9/8

8x+32=576-9x

x=32

The number of black balls in bag B Initially=56-

32=24

The number of blue balls in Bag B Initially = 32

Required percentage=24/32*100=75%

Quantity II > Quantity I

46) Answer: A

From option (A)

The number of products in an electric shop=x

(750*x+550+290)/x=(750+70)

750x+550+290=820x

840=70x

x=12

This is satisfied.

From option (B)

The number products in an electric shop=y

(1200*y+550+290)/y=(1200+70)

1200y+550+290=1270y

70y=840

y=12

This is not satisfied.

From option (C)

The number products in an electric shop=z

(510*z+550+290)/z=(510+70)

510z+550+290=580z

70z=840

z=840/70

z=12

This is not satisfied.

47) Answer: D

The total quantity of glass A=11x

The quantity of milk in glass A=9x

The quantity of water in glass A=2x

The quantity of milk in glass B=9x*100/120=7.5x

The quantity of water in glass B=7.5x*2/5=3x

The total quantity of glass B=7.5x+3x=10.5x

11x-10.5x=4

x=8

The quantity of milk in glass A=9*8=72 liters

The quantity of milk in glass B=7.5*8=60 liters

The quantity of water in glass B=3*8=24 liters

The average quantity of milk in glasses A and B=(72+60)/2= 66 liters

The quantity of milk in glass=66 liters

Required ratio=66:24=11:4

48) Answer: B

The profit share of Noah=Rs.3450

The profit share of Liam=8700-3450=Rs.5250

Ratio of the profit share of Liam and Noah=5250:3450=35:23

(x*16+2x*20)/(9000*20+9000*66(2/3)%*16)=35/23

56x*23=(276000)*35

x=7500

49) Answer: A

The monthly income of A=12x

The monthly income of B=7x

The monthly income of C=12x*100/125=9.6x

9.6x-7x=3900

x=1500

The monthly income of A=12*1500=Rs.18000

The monthly income of B=7*1500=Rs.10500

The monthly income of C=9.6*1500=Rs.14400

The savings of A=18000-13500=Rs.4500

The savings of B=4500*11/15=Rs.3300

The expenditure of B=10500-3300=Rs.7200

Required percentage=7200/14400*100=50%

50) Answer: C

Compound interest obtained on 1st year=15000*20/100=Rs.3000

Compound interest obtained on 2nd year=18000*10/100=Rs.1800

Compound interest obtained on 3rd year=19800*15/100=Rs.2970

Compound interest obtained end of three years=3000+1800+2970=Rs.7770

P*15*7/100=7770

P=7400

aIBPS PO Mains 2021 Memory Based

Directions (01-05): Study the following information carefully and answer the questions.

The given pie chart shows the percentage distribution of total number of students in four different schools i.e. A, B, C and D.

Total number of students in all four schools=2500
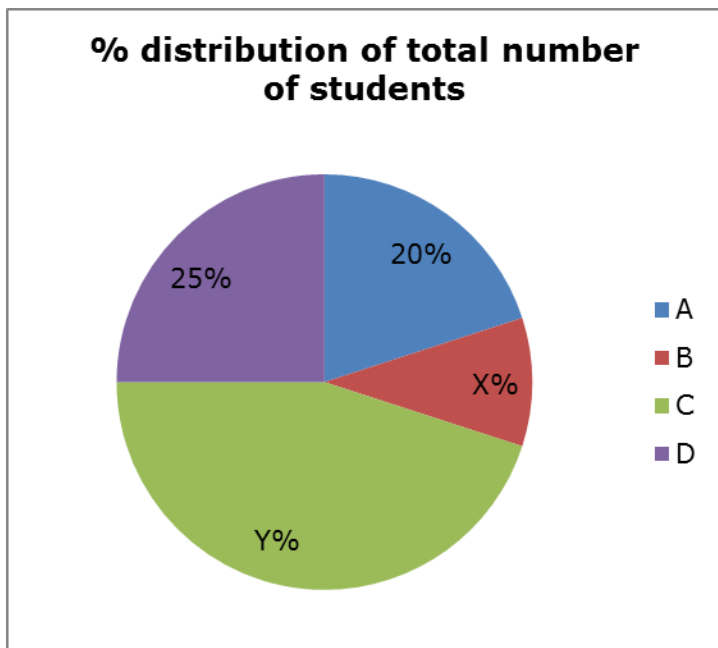
The given pie chart shows the percentage distribution of the number of boys in four different schools.

Number of boys in all four schools=1200
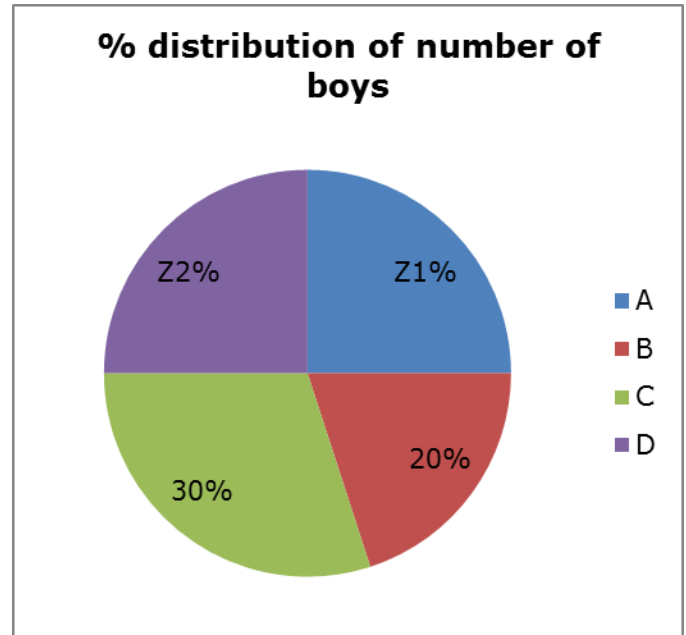
Note:

a) Number of boys in school A is 100 more than the number of girls in the same school.

b) Number of girls in school B is 10

1) Number of boys in schools A and C together is how much more/less than the average number of girls in schools C and D together?

a) 175 less

b) 100 less

c) 115 more

d) 210 more

e) None of these

2) Which of the following is true?

a) Number of girls in school C is more than number of boys in school A

b) $(Y-X)=Z1+10$

c) The number of girls in school C is maximum

d) Total number of students in school A is two times total number of students in school B

e) All of the above

3) Out of the total number of students in school E, 80% of the students passed the exam. If the number of boys and girls in school E is 25% and 40% more than that of school D respectively, then find the total number of students who have failed the exam in school E.

a) 124

b) 175

c) 138

d) 166

e) None of these

4) The average number of boys in schools B and C together is what percentage more than the total number of students in school B?

a) 45%

b) 20%

c) 15%

d) 50%

e) None of these

5) Find the ratio of the sum of the maximum and the minimum number of boys in the school and the sum of the first and second-lowest number of girls in the school?

a) 20:7

b) 11:5

c) 9:4

d) 8:3

e) None of these

Directions (06-10): Study the following information carefully and answer the questions.

The given table chart shows the number of drifts and crashes done by four cars namely i.e. P, Q, R and S and also the time taken by these cars to cross 3000 m race.

Car	Drift	Time taken (in sec)	Crash
P	5	180	3
Q	9	120	5
R	6	150	4
S	8	200	6

Note:

1) Drift refers to over-starting intentionally done by the driver.

2) While calculating the average speed of the car, time taken for drifts and crashes are not included.

3) Total points=50*drifts-20*crashes

6) To gain 120 more points than car R, then how many more drifts should be done by car S if the number of crashes done by car S is 33.33% more than actual crashes and the time taken by car S is the same.

a) 4

b) 3

c) 2

d) 5

e) None of these

7) Find the difference between the maximum points earned by the car and the minimum points earned by the car at the end of the race.

a) 160

b) 110

c) 190

d) 150

e) None of these

8) The speed of the cars R and S together is what percentage more than the speed of the car Q?

a) 45%

b) 70%

c) 40%

d) 25%

e) None of these

9) If the speed of the car R is decreased by 25%, then find the time taken by car R to cover the same distance?

a) 120 sec

b) 200 sec

c) 150 sec

d) 180 sec

e) None of these

10) If the number of drifts done by car T is 40% more than that of car P and it still receives 0 points at the end, then how many crashes are done by car T?

a) 8.5

b) 10.5

c) 17.5

d) 9.5

e) None of these

Directions (11-12): Two number series I and II are given below. Where series I is missing number series and series II is wrong number series.
I) 11, P, 181, 350, 639, 1000
II) 242, 251, 255, 280, 329, 450, 619

11) 45, P, 78, 99, ?. What value should come in the place of (?).

a) 124

b) 123

c) 126

d) 129

e) 122

12) What is the value of (2k+1)?

Note: K= the correct number which replaces the wrong number in the given series.

a) 493

b) 319

c) 527

d) 275

e) 193

13) Vessel contains a mixture of milk and water in the ratio of 4:1. If 20% of the mixture is taken out and some equal quantity of milk and water added into the mixture, then the quantity of milk in the final mixture becomes 60 liters more than that of water. Find the initial quantity of mixture in the vessel.

a) 150 liters

b) 175 liters

c) 100 liters

d) 125 liters

e) None of these

14) Car A covers a distance from point P to Q in 5 hours and car B covers 3/4th of the distance from point P to Q in 7.5 hours. If the speed of car B is increased by 9 km/hr and then the same distance is covered in 6 hours. Find the speed of car A.

a) 54 km/hr

b) 60 km/hr

c) 72 km/hr

d) 45 km/hr

e) None of these

15)

I) $9/x^2-11/x+2=0$

II) $(y-2)^2=2(1/4)$

a) X > Y

b) X ≥ Y

c) X = Y (or) relationship can't be determined

d) X< Y

e) X ≤ Y

16) Out of the total number of chairs in a shop, 60% of the chairs are sold and the remaining 290 chairs are unsold. If the total cost of all the chairs is Rs.174000, then find the overall profit obtained on 60% of the chairs.

Which of the following options is sufficient to find the answer.

a) 20%of the chairs are defective out of the total number of chairs in a shop.

b) The difference between the cost price and the selling price of a chair is Rs.120.

c) The marked price of a chair is 50% more than the cost price.

d) 40% of the chairs are sold at 25% profit and the remaining chairs are sold at 33.33% profit.

e) All of the above

Directions (17-21): Study the following information carefully and answer the questions. The given bar graph shows the total number of shares bought in four different years i.e. 2001, 2003, 2005 and 2007.
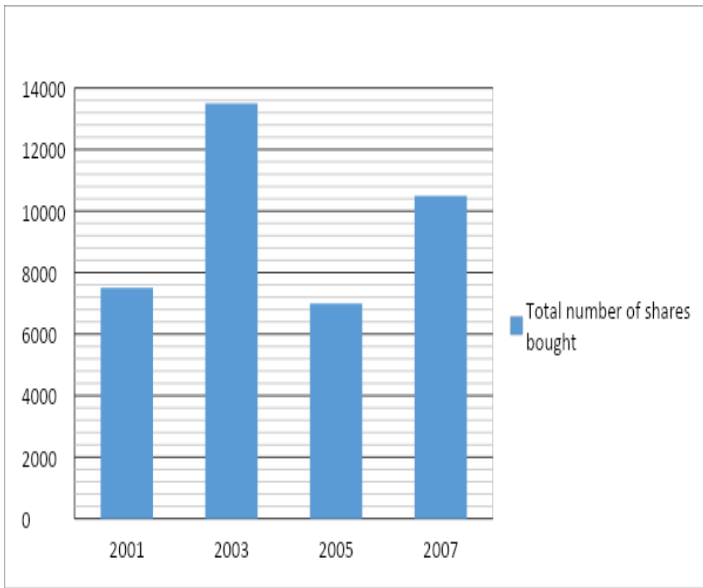
The given bar graph shows the cost price per share (in Rs.) in three different years i.e. 2002, 2004 and 2006.
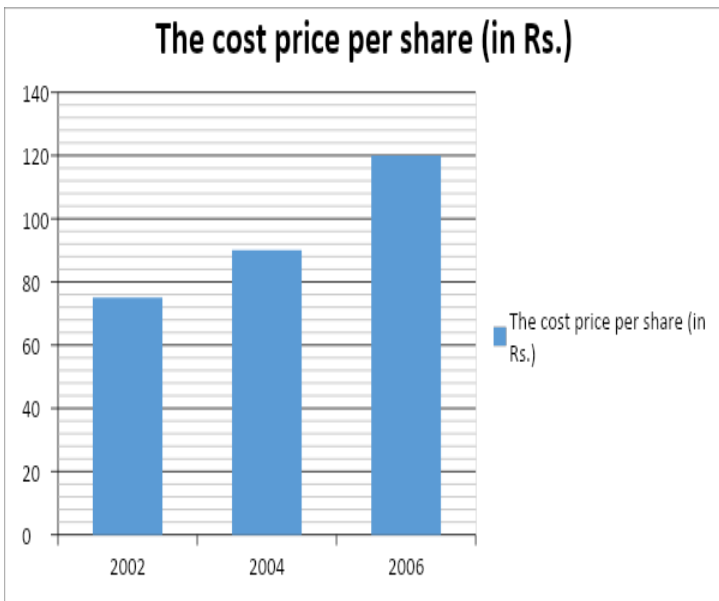
Note:

1) The cost price per share in 2002 is 25% more than that of the previous year and the cost price per share in 2003 is three times the cost price per share in 2001.

2) Total number of shares bought in 2004 is 32% more than that of 2001 and the ratio of total number of shares bought in 2001 and 2002 is 5:6.

3) Gross value = Market value - (Liability + Other expense)

4) Market value = The cost price per share * Total number of shares bought

17) If the total number of shares bought in 2006 is 28% more than that of 2001 and the sum of the liability and other expenses in 2006 is equal to the market value in 2001, then find the gross value in 2006.

a) Rs.546000

b) Rs.702000

c) Rs.258000

d) Rs.675000

e) None of these

18) In 2004, 60% of the shares were bought by old investors and the remaining shares were bought by new investors. If the ratio of number of shares bought by old investors to new investors in 2002 is 8:7 and then find the sum of number of shares bought by new investors in 2002 and 2004 together?

a) 8160

b) 3240

c) 7250

d) 5480

e) None of these

19) In 2003, the ratio of the liability and market value was 1:5 and the liability value was Rs.12000 more than the other expenses. If the gross value in 2002 is 40% of the gross value in

2003, then find the sum of the liability and other expenses in 2002?

a) 68000

b) 75000

c) 54000

d) 87000

e) None of these

20) If the ratio of the cost price per share in 2004 to 2007 is 3:5 and the cost price per share in 2005 is Rs.65 more than that of 2002, then find the difference between the market value in 2005 and 2007.

a) Rs. 595000

b) Rs.343000

c) Rs.176000

d) Rs.418000

e) None of these

21) The average number of shares bought in 2002 and 2003 is what percentage is more/less than the total number of shares bought in 2001?

a) 20% more

b) 15% less

c) 50% more

d) 30% less

e) None of these

Directions (22-26): Study the following information carefully and answer the questions. The given table shows the volume and height of four right circular cylindrical tanks W, X, Y and Z. The given data also depicts time taken to fill or empty the tank by inlet pipe A, B and outlet pipe C.

Tank	Volume	Height	Time taken by pipe A to fill tank (in hours)	Ratio of time taken by pipe B to fill and pipe C to empty the tank
W	38808	28	10	2:3
X	--	10	12	3:2
Y	5390	35	18	1:3
Z	19250	--	--	2:5

Note: Ratio between time taken by pipe B and that by pipe C is different because pipes were used by the operator in different ways for different tanks. Radius of tank Z is 10.5 m.

22) How much volume of initially empty tank W is filled in one hour, when all three pipes were opened simultaneously (Time taken by pipe C is 30 hours)?

a) 4527.6

b) 4536.8

c) 4542.4

d) 4524.2

e) None of these

23) Pipe B can alone fill the tank X in 36 hours. When all three pipes were opened for one hour, then the volume of tank X filled was approximately 428 cubic meters/hour, what is the approximate radius of tank x?

a) 12

b) 14

c) 21

d) 28

e) 35

24) When all three pipes were opened simultaneously, the volume of tank Z filled in one hour is 3575 cubic meters/hour. Pipe B alone can fill 25% of the tank in 3.5 hours. In how much time, can pipe A can fill the 40% of the tank alone?

a) 7 hours

b) 3.5 hours

c) 2.8 hours

d) 2.1 hours

e) None of these

25) Another tank M has its height is 20% more than that of Y and radius is 20% more than that of W. What is the sum of total surface area of tank W and M together?

a) 17112.48

b) 17119.53

c) 17845.32

d) 17863.65

e) 17145.90

26) Find the respective ratio of the curved surface area of tank W and total surface area of tank Y?

a) 1:2

b) 2:1

c) 1:1

d) 3:2

e) None of these

Avni and Beena started the business by investing Rs.P and Rs.1.2P respectively. After x months Avni withdrew her entire amount and Chetna entered into business. After the end of 9 months, Beena increased her initial investment by 25%. On completion of one year, the share of Avni and Beena in the entire profit is Rs.14200. If beena would have increased her investment after x months, then share of Avni and Beena in entire profit would have been 10:27.

27) Find the value of x.

a) 6

b) 4

c) 3

d) 10

e) 5

28) Find the difference between the profit share of Avni and Beena if the ratio of their profit share is 20:51?

a) Rs.4800

b) Rs.5800

c) Rs.6200

d) Rs.6500

e) Rs.7000

29) If the initial investment of Chetna is Rs.7200 and then find the profit share of Chetna at the end of the year.

a) 2000

b) 2700

c) 3600

d) 4200

e) Cannot be determined

30) B is 20% more efficient than A. If B is 60% more efficient than A, then B can complete the work in 18 days less than the number of days taken by A. What fraction of work will be left after 12 days, if A and B work together?

a) 11/20
b) 9/20
c) 13/20
d) 7/20
e) None of these

31) A and B started the business with the investment in the ratio of 2:1. C and D entered into another partnership with the investment of 2:1. Total investment of A and B is 25% less than that of C and D. If the total profit of all four people at the end of year is Rs.10500, then find the profit share of A.

a) Rs.2400
b) Rs.2700
c) Rs.3000
d) Rs.3300
e) Rs.3600

32) Teacher distributes 'N' chocolates to '3x' students. Find the value of x.

Statement I: If he distributes 6 chocolates to each student, then he is left with 24 chocolates.

Statement II: If the number of students were 1/3rd of the original number, then no chocolates are left with the teacher.

Statement III: Number of the students is more than 30 and less than 40 and total number of chocolates are more than 200 and less than 300

a) IF Statement I and II alone are sufficient to answer the question
b) IF statement II and III alone are sufficient to answer the question
c) If All I, II and III are sufficient to answer the question
d) If none of the statement is sufficient to answer the question
e) None of these

33) A, B and C entered into a partnership. After 8 months, B and C left the business. What is their total annual profit at the end of year?

Statement I: Annual profit of B is Rs.400 more than that of A and Rs.200 more than that of C.

Statement II: Amount invested by C is half of total amount invested by A and B.

Statement III: Ratio between profit shares of C and that of A and B together is 1:2.

a) IF Statement I and II alone are sufficient to answer the question
b) IF statement II and III alone are sufficient to answer the question
c) If All I, II and III are sufficient to answer the question
d) If none of the statement is sufficient to answer the question
e) None of these

Answer Key with Explanation

Directions (1-5):

Total number of students in school

A=2500*20/100=500

Total number of students in school

D=2500*25/100=625

Number of boys in school B=1200*20/100=240

Number of boys in school C=1200*30/100=360

Number of boys in school A=b

Number of girls in school A=g

b+g=500

b-g=100

2b=600

b=300

g=200

Number of boys in school D=1200-

(300+240+360)=300

Number of girls in school B=10

Total number of students in school

B=240+10=250

Total number of students in school C=2500-

(500+250+625)=1125

Number of girls in school C=1125-360=765

Number of girls in school D=625-300=325

School	Total number of students	Number of boys	Number of girls
A	500	300	200
B	250	240	10
C	1125	360	765
D	625	300	325

1) Answer: C

Number of boys in schools A and C together

=300+360=660

The average number of girls in schools C and

D=(765+325)/2=545

Required difference=660-545=115 more

2) Answer: E

From Option (A)

Difference between number of girls in school C

and number of boys in school A=765-300=465

more

This statement is true.

From Option (B)

45-10=25+10

35=35

This statement is true.

From Option (C)

Number of girls is maximum in school C=765

This statement is true.

From Option (D)

Total number of students in school A=500

Total number of students in school B=250

This statement is true.

All of the above statements are true.

3) Answer: D

Number of boys in school E=300*125/100=375

Number of girls in school E=325*140/100=455

Total number of students in school

E=375+455=830

Total number of students who have failed the

exam in school E=830*20/100=166

4) Answer: B

The average number of boys in schools B and

C=(240+360)/2=300

Required average=(300-

250)/250*100=50/250*100=20%

5) Answer: A

The sum of the maximum and minimum number

of boys in the school=360+240=600

The sum of the first and second lowest number

of girls in the school=200+10=210

Required ratio=600:210=20:7

Directions (6-10):

Total points earned by car P=50*5-20*3=190

Total points earned by car Q=50*9-20*5=350

Total points earned by car R=50*6-20*4=220

Total points earned by car S=50*8-20*6=280

The speed of the car P=3000/180=50/3 m/s

The speed of the car Q=3000/120=25 m/s

The speed of the car R=3000/150=20 m/s

The speed of the car S=3000/200=15 m/s

6) Answer: C

Car S gained 120 more points than car

R=220+120=340

The number of crashes done by car S is

increased by 33.33%=6*4/3=8

The number of drifts done by car S=(8+x)

50*(8+x)-20*8=340

50*(8+x)=500

x=10-8

x=2

7) Answer: A

Maximum points are earned by the car Q=350

Minimum points are earned by the car P=190

Required difference=350-190=160

8) Answer: C

The speed of the cars R and S=20+15=35

Required percentage=(35-25)/25*100=40%

9) Answer: B

The speed of the car R is decreased by

25%=20*75/100=15 m/s

Required time taken=3000/15=200 sec

10) Answer: C

The number of drifts done by car T=5*140/100=7

The number of crashes done by car T=y

50*7-y*20=0

350=20*y

y=17.5

11) Answer: B

I) 11   **60**   181   350   639   1000

    7^2 11^2 13^2 17^2 19^2

P=60

II) 242   **246**   255   280   329   450   619

    2^2 3^2 5^2 7^2 11^2 13^2

45   60   78   99   **123**

    15   18   21   24

12) Answer: A

11   **60**   181   350   639   1000

    7^2 11^2 13^2 17^2 19^2

P=60

242 **246** 255 280 329 450 619

   2^2 3^2 5^2 7^2 11^2 13^2

Required value=2*246+1=493

13) Answer: D

Milk in initial mixture=4x

Water in initial mixture=1x

Milk and water in initial mixture=5x

20% of the initial mixture=5x*20/100=x

The quantity of milk added in the mixture=y

The quantity of water added in the mixture=y

(4x-x*4/5+y)-(x-x/5+y)=60

4x-4x/5+y-x+x/5-y=60

3x-3x/5=60

12x/5=60

x=25

Milk and water in initial mixture=5*25=125 liters

14) Answer: C

The distance between point P to Q=4x km

Car B covers a distance =4x*3/4=3x km

3x/6-3x/7.5=9

15x-12x=270

x=90

The distance between point A to B=90*4=360 km

The speed of the car A=360/5=72 km/hr

15) Answer: C

$9/x^2-11/x+2=0$ --- (1)

$(1)*x^2$

$2x^2-11x+9=0$

$2x^2-2x-9x+9=0$

2x(x-1)-9(x-1)=0

x=+1, +9/2

x=1, 4.5

$(y-2)^2=2$ (¼)

$(y-2)^2=9/4$

y-2=±3/2

y=3.5, 0.5

Hence, Relationship can't be established

16) Answer: D

The total number of chairs=290*100/40=725

The number of chairs sold=725*60/100=435

The cost price of a chair=174000/725=Rs.240

From option (A)

The total number of chairs=725

20% of the defective chairs=725*20/100=145

80% of the non-defective

chairs=725*80/100=580

This is not satisfied with the given condition.

From option (B)

Difference between the selling price and cost

price of a chair=120

This is not satisfied with the given condition.

From option (C)

The marked price of a

chair=240*150/100=Rs.360

This is not satisfied with the given condition.

From option (D)

40% of chairs sold=435*40/100=174

60% of chairs sold=435*60/100=261

Required overall

profit=174*240*125/100+261*240*4/3-435*240

=135720-435*240

=Rs.31320

This satisfies the given condition.

Directions (17-21):

The cost price per share in 2001=75*100/125=Rs.60

The cost price per share in 2003=60*3=Rs.180

Total number of shares bought in 2002=7500*6/5=9000

Total number of shares bought in 2004=7500*132/100=9900

Year	Total number of shares bought	The cost price per share (in Rs.)
2001	7500	60
2002	9000	75
2003	13500	180
2004	9900	90
2005	7000	-

17) Answer: B

The market value in 2001=7500*60=Rs.450000

The sum of liability and other expenses in 2006=Rs.450000

Total number of shares bought in 2006=7500*128/100=9600

The market value in 2006=9600*120=Rs.1152000

The gross value in 2006=1152000-450000=Rs.702000

18) Answer: A

Number of shares bought by old investors in 2004=9900*60/100=5940

Number of shares bought by new investors in 2004=9900-5940=3960

Number of shares bought by new investors in 2002=9000*7/(8+7)=4200

Required sum=3960+4200=8160

19) Answer: D

The market value in 2003=13500*180=Rs.2430000

The liability value in 2003=2430000*1/5=Rs.486000

The other expenses in 2003=486000-12000=Rs.474000

The gross value in 2003=2430000-(486000+474000)=Rs.1470000

The gross value in 2002=1470000*40/100=Rs.588000

The market value in 2002=9000*75=Rs.675000

The sum of the liability and other expense in 2002=675000-588000=Rs.87000

20) Answer: A

The cost price per share in 2007=90*5/3=Rs.150

The cost price per share in 2005=75+65=Rs.140

Required difference=10500*150-7000*140=Rs.595000

21) Answer: C

The average number of shares bought in 2002 and 2003=(9000+13500)/2=11250

Required percentage=(11250-7500)/7500*100=3750/75=50% more

22) Answer: A

Pipe B fill the tank = 30 * 2/3 = 20 hours

A + B + C = 1/10 + 1/20 – 1/30

= 6 + 3 – 2/60

= 7/60

Required Volume = 7/60 * 38808 = 4527.6

23) Answer: B

C alone empty the tank x = 36 * 2/3 = 24 hours

A + B + C = 1/36 + 1/12 – 1/24 = 2 + 6 – 3/72

= 5/72

5/72 * Volume of tank = 428

5/72 * 22/7 * r^2 * 10 = 428

r^2 = 196

r = 14

24) Answer: C

Pipe B fill the tank = 3.5 * 100/25 = 14 hours

Pipe C fill the tank = 14 * 5/2 = 35 hours

A + 1/14 – 1/35 = 3575/19250

70A + 5 – 2/70 = 13/70

70A = 10

A = 1/7

A alone fill 40% of the tank = 7 * 40/100 = 2.8 hours

25) Answer: A

22/7 * r * r * 28 = 38808

Radius of the tank W = 21

Radius of M = 120/100 * 21 = 25.2

Height of M = 120/100 * 35 = 42

TSA of M = 2 * 22/7 * 25.2 * (42 + 25.2) = 10644.48

TSA of W = 2 * 22/7 * 21 * (28 + 21) = 6468

Required sum = 6468 + 10644.48 = 17112.48

26) Answer: B

22/7 * r * r * 28 = 38808

Radius of the tank W = 21

22/7 * r1*r1 * 35 = 5390

Radius of tank Y = 7

Required ratio = (2 * 22/7 * 21 * 28):(2 * 22/7 * 7 * (35 + 7))

= 2:1

27) Answer: A

Profit ratio of Avni and Beena = 10:27

P * x/(1.2P * x + (1.2P * 125/100 * (12-x)) = 10/27

Px/P(1.2x + 18 – 1.5x) = 10/27

27x = 180 – 3x

x = 6

28) Answer: C

Required difference = (51 – 20)/(20 + 51) * 14200

= 6200

29) Answer: E

Since we can't able to find the value of P

30) Answer: B

Efficiency of A and B = 100:120 = 5:6

Time ratio of A and B = 6:5

If B is 60% more efficient than A, then

Time ratio of A and B = 6x:6x * 100/160

= 6x:15x/4

6x – 15x/4 = 18

$9x/4 = 18$

$x = 8$

A and B complete the work in 12 days = $12/(6 * 8) + 12/(5 * 8)$

$= 11/20$

Remaining work = $1 – 11/20 = 9/20$

31) Answer: C

Investment of A and B together and C and D together = $75:100 = 3:4$

Profit share of A and B = $3/7 * 10500 = 4500$

Profit share of A = $4500 * 2/3 = 3000$

32) Answer: C

From statement I,

$3x * 6 + 24 = N$

$18x + 24 = N$

So, statement I alone is not sufficient to answer the question.

From statement II,

$3x * 1/3 * y = N$

N/x = Completely divisible

So, statement II alone is not sufficient to answer the question.

From statement III,

30<Number of students <40 and 200 < number of chocolates < 300.

So, statement III alone is not sufficient to answer the question.

From I, II and III,

$3x * 6 + 24 = N$

$18x + 24 = N$

$30<3x<40$

$180<18x<240$

Possible values of x = 11,12, 13

$3x * 1/3 * y = N$

$y = N/x$

N/x is completely divisible

So the possible value of x is 12

$N = 18 * 12 + 24 = 240$

So ALL I, II and III together required to answer the question

33) Answer: D

From statement I,

 Investment of A, B and C is not given

So, Statement I alone is not sufficient to answer the question.

From statement II,

Investment of A and B together = 2x

Investment of C = $2x/2 = x$

So, Statement II alone is not sufficient to answer the question.

From statement III,

Ratio of the profit share of C and A and B

Together = 3:8

So, Statement III alone is not sufficient to answer the question.

Since, we can't find the answer by combining all the statements together.

IBPS Clerk Mains 2021 Memory Based

Direction (1-5): Read the following information carefully and answer the questions given below.

Vessel A, Vessel B and Vessel C contain different quantities of mixtures namely Juice, Water and Milk.

Vessel A: Out of the total mixture, the quantity of Juice is 84 liters.

Vessel B: The ratio of the quantity of juice in the mixture to the quantity of water in the mixture is 3:2 and the ratio of the quantity of water in the mixture to the quantity of milk in the mixture is 2:1. The total quantity of mixture in Vessel B is 150 liters.

Vessel C: The quantity of water in Vessel B is 66 2/3% more than the quantity of juice in Vessel C. The quantity of juice in Vessel B is 25% more than the quantity of water in Vessel C. The ratio of the quantity of milk in Vessel C to the quantity of water in Vessel C is 5:4.

Note:-

The quantity of juice in Vessel A is 20% more than the quantity of water in Vessel A. The quantity of milk in Vessel A is 2% less than the total quantity of milk in Vessel B and Vessel C together.

1) If 44 liters of mixture is taken out from Vessel C and 16 liters of juice is added to the mixture, then find the ratio between the final quantity of juice and water in Vessel C to the initial quantity of milk in Vessel A.

a) 43:49
b) 37:41
c) 41:49
d) 47:43
e) 45:49

2) Out of the total quantity in Vessel B, 24 liters of mixture is taken out in Step 1, 36 liters of mixture is taken out in Step 2, and 42 liters of mixture is taken in Step 3, then find the difference between the initial quantity of juice in Vessel B and final quantity of milk in Vessel B.

a) 67 liters
b) 65 liters
c) 70 liters
d) 72.5 liters
e) 60.5 liters

3) Find the difference between the total quantity of juice in Vessel A and Vessel B together and the total quantity of water in Vessel C.

a) 105 liters
b) 110 liters
c) 109 liters
d) 95 liters
e) 99 liters

4) Find the sum of the average quantity of Juice and Water in Vessel A and the average quantity of milk in Vessel B and C together.

a) 120
b) 130
c) 135
d) 127

e) 118

5) If 54 liters of mixture is removed from Vessel A and 18 liters of milk is added to the mixture in Vessel A and 20% mixture is removed from Vessel B and replaced with 24 liters of mixture in the same ratio, then the quantity of juice in the final mixture of Vessel B is what percentage of the quantity of milk in the final mixture of Vessel A.

a) 98%

b) 75%

c) 25%

d) 27%

e) 40%

Direction (6-10): Read the following information carefully and answer the questions given below.

In a class of 50 students, three subjects are learned by the students namely Science, Hindi and Maths. Each student likes one or more subjects. The total number of students who learn Only Hindi and Only Maths is 11. The total number of students who learn all three subjects together is 4. The total number of students who learn Only Hindi is 40% of the total number of students who learn Only Science. The total number of students who learn all subjects together is 66.66% less than the total number of students who learn both Science and Hindi (except Maths). The sum of the total number of students who learn both Hindi and Maths (except science) and the total number of students who

learn all three subjects together is 12. No students learn both Science and Maths (except Hindi).

6) Find the total number of students who do not learn Hindi.

a) 5

b) 20

c) 15

d) 10

e) 8

7) Find the sum of the total number of students who do not learn Maths and the total number of students who do not learn Science.

a) 55

b) 35

c) 30

d) 45

e) 52

8) Find the total number of students who like only two subjects.

a) 20

b) 12

c) 9

d) 18

e) 15

9) Find the difference between the total number of students who learn at most two subjects and the total number of students who learn at most one subject.

a) 18

b) 34

c) 20

d) 25

e) 30

10) The total number of students who learn Only Science is what percentage more/less than the total number of students who learn only Hindi.

a) 100% more

b) 75% more

c) 125% less

d) 150% more

e) 110% less

Direction (11-13): The question given below consists of two series namely Series I and Series II. The series-I satisfy a certain pattern, follow the same pattern in Series-II and answer the questions given below.

Series I: 7, 8, 17, 52, 209, 1046, 6277

Series II: 3, [P], [Q], [R]

11) Find the value of 2[P] – 4√[Q] + 1.5[R]

a) 38

b) 45

c) 50

d) 31

e) 39

12) If 3397 is the nth term of the Series II, then find the value of 'n'.

a) 9

b) 10

c) 7

d) 11

e) 5

13) If [R] is the 1st term of the Series III, 2nd term is obtained by adding 7, 3rd term is obtained by adding the next prime number to the 2nd term, and so on, then find the sum of the 5th and 6th term.

a) 180

b) 171

c) 189

d) 175

e) 184

Directions (14-18): What approximate value should come in the place of (?) in the following questions.

14) 34.83% of 1500 + √1598 % of 1200 – 24.99% of 1500 = ? - √2022

a) 700

b) 650

c) 690

d) 625

e) 675

15) ?² – 59.86% of 1599 – 33.95 * 25.76 + 14.74% of 3898 = √1021* √898-10

a) 50

b) 47

c) 42

d) 38

e) 53

16) $33.33^2 - 44.34^2 = ?$ – 39.89% of 1600 + 27.99*35.45

a) - 1195

b) - 1165

c) - 1144

d) - 1187

e) - 1175

17) $\sqrt{(288.98*4.28)} + \sqrt{2113} - \sqrt[3]{9260} - ? = \sqrt{832}$

a) 30

b) 35

c) 40

d) 28

e) 47

18) $?^3$ + 29.88% of 1198 – 36.77% of 1100 = 339.58 ÷ 4.86 ÷ 3.85

a) 10

b) 8

c) 5

d) 4

e) 7

Directions (19-23): Following questions have two quantities as Quantity I and Quantity II. You have to determine the relationship between them and give answer as,

19) The perimeter of the rectangle is 120m and the ratio of the breadth of the rectangle to the radius of the circle is 5:2. The ratio of the area of the circle to the area of the rectangle is 88:125.

Quantity I: Find the difference between the area of the circle and the area of the rectangle.

Quantity II: 350 m²

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity I < Quantity II

d) Quantity I ≤ Quantity II

e) Quantity I = Quantity II or Relation cannot be established

20)

I) $3^{x+y} = \sqrt{243}$

II) $3^{x+2y} = 81$

Quantity I: 3x+6y

Quantity II: y^2-x

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity I < Quantity II

d) Quantity I ≤ Quantity II

e) Quantity I = Quantity II or Relation cannot be established

21) The marked price of a Keyboard and Mouse is 40% and 15% more than the Cost price of Keyboard and Mouse respectively and the shopkeeper offers the same discount on Keyboard and Mouse. The selling price of the Keyboard and Mouse is Rs.280 and Rs.276 respectively.

Quantity I: Marked price of Keyboard

Quantity II: Cost price of Mouse

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity I < Quantity II

d) Quantity I ≤ Quantity II

e) Quantity I = Quantity II or Relation cannot be established

22) The age of P x years ago is the same as the age of Q x years hence. The age of R before x years is equal to the age of P 3x years hence and the difference between the present age of Q and R is 12 years

Quantity I: Average of present age of P and Q
Quantity II: Present age of R

a) Quantity I > Quantity II
b) Quantity I ≥ Quantity II
c) Quantity I < Quantity II
d) Quantity I ≤ Quantity II
e) Quantity I = Quantity II or Relation cannot be established

23)
I) x/2 + y = 60
II) $y^2 - 45y + 324 = 0$
Quantity I: Find x
Quantity II: Find y

a) Quantity I > Quantity II
b) Quantity I ≥ Quantity II
c) Quantity I < Quantity II
d) Quantity I ≤ Quantity II
e) Quantity I = Quantity II or Relation cannot be established

24) A bag contains 9 blue balls and a certain number of white and Black balls. If the probability of selecting one white ball is 1/4 and the probability of selecting one black ball is 3/10, then find the difference between the probability of selecting 2 white balls and 2 black balls.

a) 3/29
b) 1/21
c) 5/27
d) 1/38
e) 2/23

25) The marked price of the Shirt is A% above the Cost price of the shirt. A discount of 20% is offered and earns a profit of 40% while selling the Shirt. If a profit of 68% should be obtained, then what is the discount% offered?

a) 4%
b) 8%
c) 12%
d) 15%
e) 20%

26) X spends 30% of monthly income in Rent and 24% of monthly income in Food and invests the remaining monthly salary in Mutual funds and Fixed deposits in the ratio of 17:6. If the difference between the yearly investments in Mutual funds and Fixed deposits is Rs. 39600, then find the amount spent by X on Rent.

a) Rs.4000
b) Rs.3600
c) Rs.4200
d) Rs.4500
e) Rs.3800

27) A takes a loan of Rs.20000 from a bank for 2 years at 15% per annum in Compound interest. A paid 70% of the amount after 2 years and the bank put some penalty for the unpaid amount. If the amount paid by A including the penalty is Rs.11490, then the penalty paid by A?

a) Rs.3600

b) Rs.3555

c) Rs.3750

d) Rs.3650

e) Rs.3800

28) A, B and C enter into a partnership with investment of A thrice the investment of B and the investment of C is 40% more than the total investment of A and B together. If all three invest for the same period of time and the difference between the profit shared by B and C is Rs.8050, then find the total profit obtained.

a) Rs.18750

b) Rs.17500

c) Rs.16800

d) Rs.17000

e) Rs.18000

Directions (29-32): Read the following information carefully and answer the questions.

A certain number of people live in two different villages in the ratio of 3:2. The ratio of the number of males to females in villages A and B is x:y and y:x respectively. The difference between the number of males in village A and the number of females in village B is 720.

29) Find the average number of males in village A and the number of females in village B.

a) 1200

b) 1600

c) 1800

d) 1000

e) None of these

30) Out of the total number of people in village A, 45% are males and then the number of females in village A is what percentage more than the number of males in village B?

a) 50%

b) 24%

c) 36%

d) 65%

e) None of these

31) If the average number of people in villages A and B together is 4000 and then find the ratio of the number of females in village A to the number of females in village B?

a) 3:2

b) 11:6

c) 7:8

d) 9:5

e) None of these

32) If the difference between the number of males and females in village B is 320, then the number of males in village B is how much percentage more/less than the number of males in village A?

a) 25% more

b) 16% less

c) 45% more

d) 10% less

e) Can't be determined

a) $x > y$

b) $x \geq y$

c) $x = y$ or relationship can't be determined.

d) $x < y$

e) $x \leq y$

Directions (33-35): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

33)

I) $3x^2 - 4x - 64 = 0$

II) $4y^2 + 37y + 84 = 0$

a) $x > y$

b) $x \geq y$

c) $x = y$ or relationship can't be determined.

d) $x < y$

e) $x \leq y$

34)

I) $3x^2 + 5x - 100 = 0$

II) $y^2 - 31y + 234 = 0$

a) $x > y$

b) $x \geq y$

c) $x = y$ or relationship can't be determined.

d) $x < y$

e) $x \leq y$

35)

I) $3x^2 - 41x + 130 = 0$

II) $5y^2 - 6y - 95 = 0$

Directions (36-37): The following question contains two equations as I and II. You have to solve both equations and mark the appropriate answer,

I) $x^2 - px + q = 0$

II) $x^2 - (p-2)x + (q-4) = 0$

36) If the root values of the equation I is m and 3 and the root values of equation II is m and 1, then which of the following is true?

A) $p*q = 30$

B) $p - m = 3$

C) Difference between p and q is 7.

a) Only A

b) Only A and B

c) Only C

d) Only B and C

e) Only B

37) If the root values of the equation I is m and 3 and the root values of equation II is m and 1, then what is the value of $(q^2 - p*2)$?

a) 15

b) 26

c) 11

d) 30

e) 29

38) In a class, there are 5 students. If a professor is added to the class and then the average weight of the class is increased by 4 kg and the sum of the average weight of 5 students and the weight of a professor is 104 kg. Find the weight of the professor.

a) 36 kg

b) 52 kg

c) 64 kg

d) 48 kg

e) None of these

39) The marked price of an article is 34.86% more than the cost price and the shopkeeper sold the article at a discount of 15.24% on the marked price. If the shopkeeper sold the article at a discount of 9.99%, while he gets a profit of Rs.81 more and then find the cost price of the article (approximately)?

a) Rs.1200

b) Rs.960

c) Rs.1000

d) Rs.720

e) None of these

40) The boat covers a certain distance upstream in 6 hours and the same boat covers the same distance downstream in 3 hours. If the time taken by boat covers 135 km upstream in 9 hours, then find the total distance travelled downstream in 7 hours?

a) 315 km

b) 210 km

c) 196 km

d) 252 km

e) None of these

41) The average age of A, B and C is 20 years and the age of B is 21 years. Just before the birth of A the average age of B and C is 12 years. Then find the age of C, 6 years hence?

a) 27 years

b) 25 years

c) 33 years

d) 21 years

e) None of these

42) A two digit number obtained by interchanging the digits is 27 more than its original number. If the sum of the digits is 9, then the first digit of the original number is what percentage of the second digit of the original number?

a) 10%

b) 70%

c) 30%

d) 50%

e) None of these

43) There are two trains A and B starting at the same time from Delhi to Mumbai and proceeding towards one after another. Ratio of the speed of trains A to B is 9:7. If they meet, it is found that train A travelled 98 km more than train B and the speed of train A is 63 km/hr, then find the distance between Delhi to Mumbai.

a) 672 km

b) 784 km

c) 896 km

d) 560 km

e) None of these

44) x men can do a piece of work in y days. 0.9x women can complete 1/3rd of the same work in (y-8) days. If 0.8x women can complete 1/3rd of the same work in 36 days, then how many days 0.5x men complete 25% of the work?

a) 20 days

b) 12 days

c) 25 days

d) 16 days

e) 15 days

45) A and B started a business with an investment in the ratio of 3:4. After 6 months, B left and C joined with the double the initial investment of A. After x more months, A left the business. At the end of the year, the profit share of A is 2/7th of the total profit and then find the value of x.

a) 1

b) 4

c) 5

d) 2

e) None of these

46) Pipe P can fill 2/9th of the tank in 20 hours with help of pipe Q the tank fills in 36 hours. Pipes R and S together fill the tank in 20 hours

and the efficiency of Q is 60% of the efficiency of R. Pipes P, Q, R and S started to fill the tank. After 9 hours, pipes Q and R closed and then how many hours both pipes P and S together fill the remaining tank?

a) 7 hours

b) 5 hours

c) 9 hours

d) 8 hours

e) None of these

47) 3 years hence, the ratio of the age of B and C is 2:3. If the average age of A and B is 11 years less than the age of C and the age of A is 35 years, then find the age of C 2 years ago?

a) 52 years

b) 34 years

c) 28 years

d) 40 years

e) None of these

48) The volume of the cone is double the volume of the cylinder and the ratio of the height of the cone and cylinder is 3:2. If the radius of the cylinder is 5 cm, then find the radius of the cone.

a) 14 cm

b) 21 cm

c) 10 cm

d) 15 cm

e) None of these

49) Hari invested Rs.P for 5 years at 24% per annum. After 5 years, he received the total amount and invested for 7 years at the same

rate of interest. If the interest received by Hari after 7 years is Rs.16176 more than Rs.P and then find the value of P.

a) Rs.6000

b) Rs.5000

c) Rs.8000

d) Rs.7000

e) None of these

50) A certain number of balls sold by three different shops L, M and N. The total number of balls sold by shop L is 28.56% more than that of shop N and the ratio of the number of balls sold by shops N and M is 7:15, then find the ratio between the difference of the total number of balls sold by shops L and M and the difference of the total number of balls sold by shops M and N?

a) 9:5

b) 7:8

c) 3:4

d) 2:1

e) Can't be determined

Answer Key with Explanation

Directions (1-5) :

Vessel B:

The ratio of the quantity of juice to water in Vessel B = 3:2

The ratio of the quantity of water to milk = 2:1

The ratio of the quantity of juice, water and milk in Vessel B = 3:2:1

The total quantity of mixture in Vessel B = 150 liters

The quantity of juice in the mixture of Vessel B = 150*3/6 = 75 liters

The quantity of water in the mixture of Vessel B = 150*2/6 = 50 liters

The quantity of milk in the mixture of Vessel B = 150*1/6 = 25 liters

Vessel C:

The quantity of water in Vessel B = 66 2/3% more than the quantity of juice in Vessel C = 2/3

more than the quantity of juice in Vessel C = 5/3 of the quantity of juice in Vessel C

The quantity of juice in the mixture of Vessel C = 50*3/5 = 30 liters

The quantity of water in the mixture of Vessel C = 75*100/125 = 60 liters

The quantity of milk in the mixture of Vessel C = 60*5/4 = 75 liters

The total quantity of mixture in Vessel C = 30+60+75 = 165 liters

Vessel A:

The quantity of juice in the mixture of Vessel A = 84 liters

The quantity of water in the mixture of Vessel A = 84*100/120 = 70 liters

The quantity of milk in the mixture of Vessel A = (75+25)*98/100 = 98 liters

The total quantity of mixture in Vessel A = 84+70+98 = 252 liters

Vessel	Quantity of juice in liters	Quantity of water in liters	Quantity of milk in liters	Total quantity in liters
A	84	70	98	252
B	75	50	25	150
C	30	60	75	165

1) Answer: C

The ratio of juice, water and milk in Vessel C = 30:60:75 = 2:4:5

The quantity of juice removed from Vessel C = 44*2/11 = 8 liters

The quantity of water removed from Vessel C = 44*4/11 = 16 liters

The quantity of milk removed from Vessel C = 44*5/11 = 20 liters

The final quantity of juice in Vessel C = 30-8+16 = 38 liters

The final quantity of water in Vessel C = 60-16 = 44

Required ratio = (38+44) : 98 = 82:98 = 41:49

2) Answer: A

Step 1:

The quantity of juice in the mixture of Vessel B = 75-24*3/6 = 63 liters

The quantity of water in the mixture of Vessel B = 50-24*2/6 = 42 liters

The quantity of milk in the mixture of Vessel B = 25-24*1/6 = 21 liters

Step 2:

The quantity of juice in the mixture of Vessel B = 63-36*3/6 = 45 liters

The quantity of water in the mixture of Vessel B = 42-36*2/6 = 30 liters

The quantity of milk in the mixture of Vessel B = 21-36*1/6 = 15 liters

Step 3:

The quantity of juice in the mixture of Vessel C = 45-42*3/6 = 24 liters

The quantity of water in the mixture of Vessel C = 30-42*2/6 = 16 liters

The quantity of milk in the mixture of Vessel C = 15-42*1/6 = 8 liters

Required difference = 75 – 8 = 67 liters

3) Answer: E

Required difference = (84+75)-60 = 99 liters

4) Answer: D

Average quantity of Juice and Water in Vessel A = (84+70)/2 = 77

Average quantity of milk in Vessel B and C = (25+75)/2 = 50

Required sum = 77+50 = 127

5) Answer: B

Ratio of Juice, Water and Milk in Vessel A = 84:70:98 = 6:5:7

Final quantity of milk in Vessel A = 98-(54*7/18)+18 = 95 litres

Ratio of Juice, Water and Milk in Vessel B = 3:2:1

20% of mixture in Vessel B = 150*20/100 = 30

Final quantity of juice in Vessel B = 75-30*3/6+24*3/6 = 72 liters

Required percentage = 72/95 * 100 = 75%

Directions (6-10):

Total number of students = 50

Total number of students who learn all three subjects together = 4

Total number of students who learn all subjects together is 66.66% less than the total number of students who learn both Science and Hindi (except Maths)

Total number of students who learn all subjects together = (1-66.66/100 = 1-2/3 = 1/3) of the total number of students who learn both Science and Hindi (except Maths)

Total number of students who learn both Science and Hindi (except Maths) = 4*3 = 12

The total number of students who learn Only Hindi and Only Maths = 11

The sum of total number of students who learn both Hindi and Maths (except science) and total number of students who learn all three subjects together = 12

Total number of students who learn both Hindi and Maths (except Science) = 12-4 = 8

Total number of students who learn Only Science = 50-(11+4+12+8) = 15

Total number of students who learn Only Hindi = 15*40/100 = 6

Total number of students who learn Only Hindi and Only Maths = 11

Total number of students who learn Only Hindi = 11-6 = 5
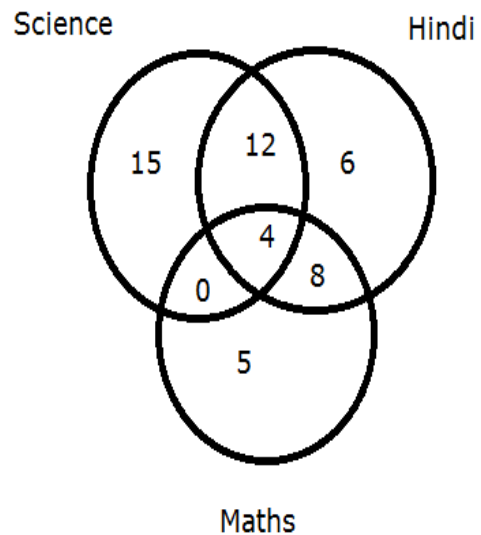
6) Answer: B

Total number of students of who do not learn Hindi = 15+5+0 = 20

7) Answer: E

Total number of students who do not learn Maths = 15+12+6 = 33

Total number of students who do not learn Science = 6+8+5 = 19

Required sum = 33+19 = 52

8) Answer: A

Required total = 12+8+0 = 20

9) Answer: C

Total number of students who learn at most two subjects = 15+12+6+8+5 = 46

Total number of students who learn at most one subject = 15+5 + 6 = 26

Required difference = 46-26 = 20

10) Answer: D

Required percentage = (15-6)/6 * 100 = 9/6 *100

= 150% more

Directions (11-13):

From Series I,

7*1+1 = 8

8*2+1 = 17

17*3+1 = 52

52*4+1 = 209

209*5+1 = 1046

1046*6+1 = 6277

Series II follows the same pattern as Series I.

3*1+1 = 4

4*2+1 = 9

9*3+1 = 28

The value of [P] = 4

The value of [Q] = 9

The value of [R] = 28

11) Answer: A

$2[P] - 4\sqrt{[Q]} + 1.5[R] = 2*4 - 4*\sqrt{9} + 1.5*28 = 8 - 12 + 42 = 38$

12) Answer: C

From Series II,

3*1+1 = 4

4*2+1 = 9

9*3+1 = 28

28*4+1 = 113

113*5+1 = 566

566*6+1 = 3397

3397 is 7th term

13) Answer: B

[R] = 28

28+7 = 35 (2nd term)

35+11 = 46 (3rd term)

46+13 = 59 (4th term)

59+17 = 76 (5th term)

76+19 = 95 (6th term)

Required sum = 76+95 = 171

14) Answer: E

34.83% of 1500 + √1598 % of 1200 – 24.99% of 1500 = ? - √2022

35/100 * 1500 + √1600 / 100 * 1200 – 25/100 * 1500 = ? - √2025

525 + 480 – 375 = ? – 45

? = 675

15) Answer: B

$?^2$ – 59.86% of 1599 – 33.95 * 25.76+ 14.74% of 3898 = √1021* √898-10

$?^2$ – 60/100 * 1600 – 34 * 26 + 15/100 * 3900 = √1024 * √900-10

$?^2$ – 960 – 884 + 585 = 950

$?^2$ = 2209

? = 47

16) Answer: D

$33.33^2 - 44.34^2 = ?$ – 39.89% of 1600 + 27.99*35.45

$33^2 - 44^2 = ?$ - 40/100 * 1600 + 28*35

1089 – 1936 = ? – 640 + 980

? = - 1187

17) Answer: A

$\sqrt{288.98 \times 4.28}$ - $\sqrt{2113}$ - $\sqrt[3]{9260}$ - ? = $\sqrt{832}$

$\sqrt{289 \times 4}$ + $\sqrt{2116}$ - $\sqrt[3]{9261}$ - ? = $\sqrt{841}$

34 + 46 –21 - ? = 29

? = 30

18) Answer: D

$?^3$ + 29.88% of 1198 – 36.77% of 1100 = 339.58 ÷ 4.86 ÷ 3.85

$?^3$ + 30% of 1200 – 37% of 1100 = 340 ÷ 5 ÷ 4

$?^3$ + 360 – 407 = 340 / (5*4)

$?^3$ = 64

? = 4

19) Answer: C

Breadth of the rectangle = 5x

Radius of the circle = 2x

Perimeter of the rectangle = 120m

2*(l+b) = 120

l+b = 60

l = 60-5x

Πr^2/l*b = 88/125

(22/7 * 2x * 2x)/((60-5x)*5x) = 88/125

x = 7

Breadth of the rectangle = 5*7 = 35m

Length of the rectangle = 60-35 = 25m

Radius of the circle = 2*7 = 14m

From Quantity I,

Area of the circle = 22/7 * 14* 14 = 616 m²

Area of the rectangle = 616*125/88 = 875 m²

Required difference = 875-616 = 259 m²

Quantity I < Quantity II

20) Answer: A

3^{x+y} = $\sqrt{243}$ = $\sqrt{3^5}$ = $3^{5/2}$

2x+2y = 5 ---- (1)

3^{x+2y} = 81 = 3^4

x+2y = 4 ---- (2)

Solving (1) and (2)

x = 1, y = 3/2

From Quantity I,

3x+6y = 3*1+6*3/2 = 12

From Quantity II,

y^2-x = $(3/2)^2$-1 = 1.25

Quantity I > Quantity II

21) Answer: A

Cost price of Keyboard = 100x

Marked price of Keyboard = 140x

Selling price of Keyboard = 140x*(100-D)/100

140x*(100-D)/100 = 280

100-D = 200/x ---- (1)

Cost price of Mouse = 100y

Marked price of Mouse = 115y

Selling price of Mouse = 115y*(100-D)/100

115y*(100-D)/100 = 276

(100-D) = 1200/5y ---- (2)

From (1) and (2),

x/y = 5/6

x = 5a y = 6a

Quantity I:

Cost price of Keyboard = 100*5a = 500a

Marked price of Keyboard = 140*5a = 700a

Quantity II:

Cost price of Mouse = 100*6a = 600a

Marked price of Mouse = 115*6a = 690a

Quantity I > Quantity II

22) Answer: E

Present age of P = P

Present age of Q = Q

Present age of R = R

P – x = Q + x

P – Q = 2x

R – x = P + 3x

R – P = 4x

Q - R = 12 or R – Q = 12

The age of P, Q and R cannot be determined

Quantity I = Quantity II (or) Relationship can't be established

23) Answer: A

From Quantity II,

$y^2 - 45y + 324 = 0$

$y^2 - 36y - 9y + 324 = 0$

$y(y-36)-9(y-36) = 0$

y = 36,9

From Quantity I,

When y = 36

x/2 = 60-36

x=48

When y = 9

x/2 = 60-9

x=102

Quantity I > Quantity II

24) Answer: D

Number of blue balls = 9

Number of white balls = x

Number of black balls = y

Probability of selecting one white ball = 1/4

$xC_1/9+x+y = 1/4$

x/(9+x+y) = 1/4

3x – y = 9 ---- (1)

Probability of selecting one black ball = 3/10

$yC_1/9+x+y = 3/10$

y/(9+x+y) = 3/10

7y – 3x = 27 ---- (2)

From (1) and (2)

x = 5, y = 6

Number of white balls = 5

Number of black balls = 6

Probability of selecting 2 white balls = $5C_2/20C_2$

= (5*4)/(20*19) = 1/19

Probability of selecting 2 black balls = $6C_2/20C_2$

= (6*5)/(20*19) = 3/38

Required difference = 3/38 – 1/19 = 1/38

25) Answer: A

Marked price of the Shirt = 100x

Selling price of the Shirt = 100x - 100x*20/100 = 80x

Profit earned = 40%

Cost price of the Shirt = 80x * 100/140 = 400x/7

Selling price of the Shirt while profit of 68% is obtained = 400x/7 * 168/100 = 96x

Discount offered = 100x-96x = 4x = 4%

26) Answer: D

Monthly income of X = 100%

Amount spend on Rent = 30%

Amount spend on Food = 24%

Amount spend on Mutual funds and Fixed deposits = 100a – (30a+24a) = 46%

Difference between the monthly investments in Mutual funds and Fixed deposits = 39600/12 = Rs.3300

Monthly investment in Mutual funds = 17a

Monthly investment in Fixed deposits = 6a

11a = 3300

a = 300

Total monthly investment in Mutual funds and Fixed deposits = 23a = 23*300 = Rs.6900

Amount spend on Rent = 6900*30/46 = Rs.4500

27) Answer:

Total amount = 20000*(1+20/100)^2 = 20000*(115/100)^2 = Rs.26450

Amount paid without penalty = 26450*70/100 = Rs.18515

Amount to be paid with penalty = Rs.7935

Penalty paid by A = 11490-7935 = Rs.3555

28) Answer: C

Investment of B = x

Investment of A = 3x

Investment of C = (3x+x)*140/100 = 5.6x

Profit ratio of A, B and C = 3x : x : 5.6x = 30 : 10 : 56 = 15 : 5 : 28

Difference between the profit shared by B and C = 28x-5x = 23x

23x = 8050

x = 350

Total profit obtained = (15x+5x+28x) = 48x = 48*350 = Rs.16800

Directions (29-32):

The ratio of the number of males and females in village A=x:y

The ratio of the number of males and females in village B=y:x

The number of males in village A=ax

The number of females in village A=ay

The total number of people in village A=ax+ay=a(x+y)

The number of males in village B=by

The number of females in village B=bx

The total number of people in village B=by+bx=b(y+x)

[a(x+y)]/[b(y+x)]=3/2

a/b=3/2

The number of males in village A=3x

The number of females in village A=3y

The number of males in village B=2y

The number of females in village B=2x

3x-2x=720

x=720

The number of males in village A=3*720=2160

The number of females in village B=2*720=1440

29) Answer: C

Required average=(2160+1440)/2=1800

30) Answer: A

The number of males in village A=2160

The number of females in village

A=2160*55/45=2640

Ratio of the number of males to females in village A=45:55=9:11

Ratio of the number of males to females in village B=11:9

The number of males in village B=1440*11/9=1760

Required percentage=(2640-1760)/1760*100=50%

31) Answer: B

The total number of people in villages A and B=4000*2=8000

The total number of people in village A=8000*3/(3+2)=4800

The number of females in village A=4800-2160=2640

The number of females in village B=1440

Required ratio=2640:1440=11:6

32) Answer: E

The number of males in village A=2160

The number of males in village B=by

So, the answer can't be determined.

33) Answer: B

$3x^2-4x-64=0$

$3x^2+12x-16x-64=0$

$3x(x+4)-16(x+4)=0$

x=-4, +5.33

$4y^2+37y+84=0$

$4y^2+16y+21y+84=0$

$4y(y+4)+21(y+4)=0$

y=-4, -21/4

y=-4, -5.25

Hence, x ≥ y

34) Answer: D

$3x^2+5x-100=0$

$3x^2-15x+20x-100=0$

$3x(x-5)+20(x-5)=0$

x=+5, -20/3

x=+5, -6.66

$y^2-31y+234=0$

$y^2-13y-18y+234=0$

y(y-13)-18(y-13)=0

y=+13, +18

x < y

35) Answer: B

$3x^2-41x+130=0$

$3x^2-15x-26x+130=0$

$3x(x-5)-26(x-5)=0$

x=+5, +26/3

x=+5, +8.67

$5y^2-6y-95=0$

$5y^2-25y+19y-95=0$

5y(y-5)+19(y-5)=0

y=+5, -19/5

y=+5, -3.8

Hence, x ≥ y

36) Answer: B

$x^2-px+q=0$ ---- (1)

m*3=q ---- (1a)

m+3=p --- (1b)

$x^2-(p-2)x+(q-4)=0$ --- (2)

m*1=q-4 --- (2a)

m+1=p-2 --- (2b)

(1a) => (2a)

1m=(3m)-4

2m=4

m=2

p=3+2=5

q=2*3=6

From option (A)

p*q=30

5*6=30

This is satisfies.

From option (B)

p-m=3

5-2=3

This is satisfies.

From option (C)

Difference between p and q is 1.

This is not satisfied.

37) Answer: B

Required value=$(q^2-p*2)=(6^2-5*2)=26$

38) Answer: C

Let the average weight of 5 students=x kg

And the weight of a professor=y kg

(5x+y)/6=x+4   ---- (1)

x+y=104

y=104-x   ---- (2)

Now substituting equation (2) in equation (1), we get

[5x+(104-x)]/6=x+4

5x+104-x=6x+24

2x=80

x=40

y=64 kg

39) Answer: A

CP of the article=100x

MP of the article=100*135/100=135x

SP of the article if 9.99% discount given=135x*90/100=243x/2

SP of the article if 15.24% discount given=135x*85/100=459x/4

(243x/2-100x)-(459x/4-100x)=81

43x/2-59x/4=81

86x-59x=324

x=12

CP of the article=100*12=Rs.1200

40) Answer: B

Upstream speed of the boat=135/9=15 km/hr

The ratio of the time taken upstream to downstream=6:3=2:1

The ratio of the upstream to the downstream speed of the boat=1:2

Downstream speed of the boat=15*2/1=30 km/hr

The total distance travelled downstream in 7 hours=30*7=210 km

41) Answer: C

The total present age of A, B and C=20*3=60 years

Just before the birth of A=0, the sum of the age of B and C=12*2=24 years

A+B+C=60 --- (1)

B+C+A=24+0=24

If A=1, B+C=24+1+1=26

(B+C)/2=A

B+C=2A

B+C=24+2A --- (2)

Now equation 2 is substituting in equation 1, we get

A+24+2A=60

3A=36

A=12 years

12+21+C=60

C=27 years

6 years hence, the age of C=27+6=33 years

42) Answer: D

Let the first digit of the original number=x

And the second digit of the original number=y

x+y=9

The sum of original number=10x+y

The sum of interchanging number=10y+x

10y+x-(10x+y)=27

9y-9x=27

y-x=3 --- (1)

x+y=9 --- (2)

2y=12

y=6

x=3

Required percentage=3/6*100=50%

43) Answer: B

The speed of train A=63 km/hr

The speed of train B=63*7/9=49 km/hr

The time is taken by both trains=x hours

63*x-49*x=98

14x=98

x=7

The distance between Delhi to Mumbai=63*7+49*7=784 km

44) Answer: A

Men=x

Days=y

0.9x*1/3*(y-8)=0.8x*1/3*36

3(y-8)=8*12

y-8=32

y=40

$M_1*D_1*W_2=M_2*D_2*W_1$

Time is taken by 0.5x men complete the work=d days

x*40*1/4=0.5x*d

x*10/0.5x=d

d=20 days

45) Answer: D

Ratio of profit share of A, B and C=3*(6+x):4*6:3*2*6=18+3x: 24: 36

(18+3x)/(24+36)=2/5

(18+3x)*5=60*2

90+15x=120

15x=30

x=2

46) Answer: C

Pipe P alone fill the tank=20*9/2=90 hours

1/P+1/Q=1/36

1/Q=1/36-1/90

1/Q=(5-2)/180

1/Q=1/60

LCM (36, 90)=180 units

Efficiency of Q=180/60=3 units/hour

Efficiency of R=3*100/60=5 units/hour

R alone fill the tank=180/5=36 hours

1/R+1/S=1/20

1/S=1/20-1/36

1/S=(9-5)/180

1/S=1/45

(1/90+1/60+1/36+1/45)*9+(1/90+1/45)*x=1

(2+3+5+4)*9/180+(2+4)*x/180=1

14*9+6*x=180

6x=180-126

6x=54

x=9 hours

47) Answer: D

The present age of B=(2x-3) years

The present age of C=(3x-3) years

The present age of A=35

[35+(2x-3)]/2=(3x-3)-11

35+2x-3=6x-6-22

4x=60

x=15

The present age of C=3*15-3=42 years

2 years ago, the age of C=42-2=40 years

48) Answer: C

The radius of the cylinder=5 cm

The height of the cylinder=2x

The radius of the cone=3x

$1/3*22/7*r^2*3x=2*(22/7*5^2*2x)$

$r^2=50*2$

$r^2=100$

r=10

49) Answer: A

If P=100x

After 8 years, the interest received by

Hari=100x*5*24/100=120x

(100x+120x)*7*24/100-100x=16176

220x*7*24/100-100x=16176

26960x=1617600

x=60

P=100*60=Rs.6000

50) Answer: C

The total number of balls sold by shop N=7x

The total number of balls sold by shop M=15x

The total number of balls sold by shop L=7x*128.56/100=7x*9/7=9x

The difference between the total number of balls sold by shops L and M=15x-9x=6x

The difference between the total number of balls sold by shops M and N=15x-7x=8x

Required ratio=6x:8x=3:4

IBPS RRB PO Mains 2021 Memory Based

Directions (01-05): What value should come in the place of (?) in the following number series.

1) 8, 5, 7, 13.5, 31, ?

a) 82.5

b) 87.5

c) 92.5

d) 62

e) 78.5

2) 3, 6, 12, 36, 180, ?

a) 1145

b) 1048

c) 1285

d) 1332

e) 1308

3) 9, 28, 55, 66, 101, ?

a) 104

b) 108

c) 110

d) 112

e) 118

4) 209, ?, 220, 187, 231, 176

a) 188

b) 192

c) 196

d) 198

e) 202

5) 60.75, ?, 27, 18, 12, 8

a) 38.5

b) 40.5

c) 42.5

d) 44.5

e) 36

Directions (06-10): Study the following information carefully and answer the questions given below.

The given line graph shows the number of students enrolled and the number of students who passed in at least one subject in five different years.
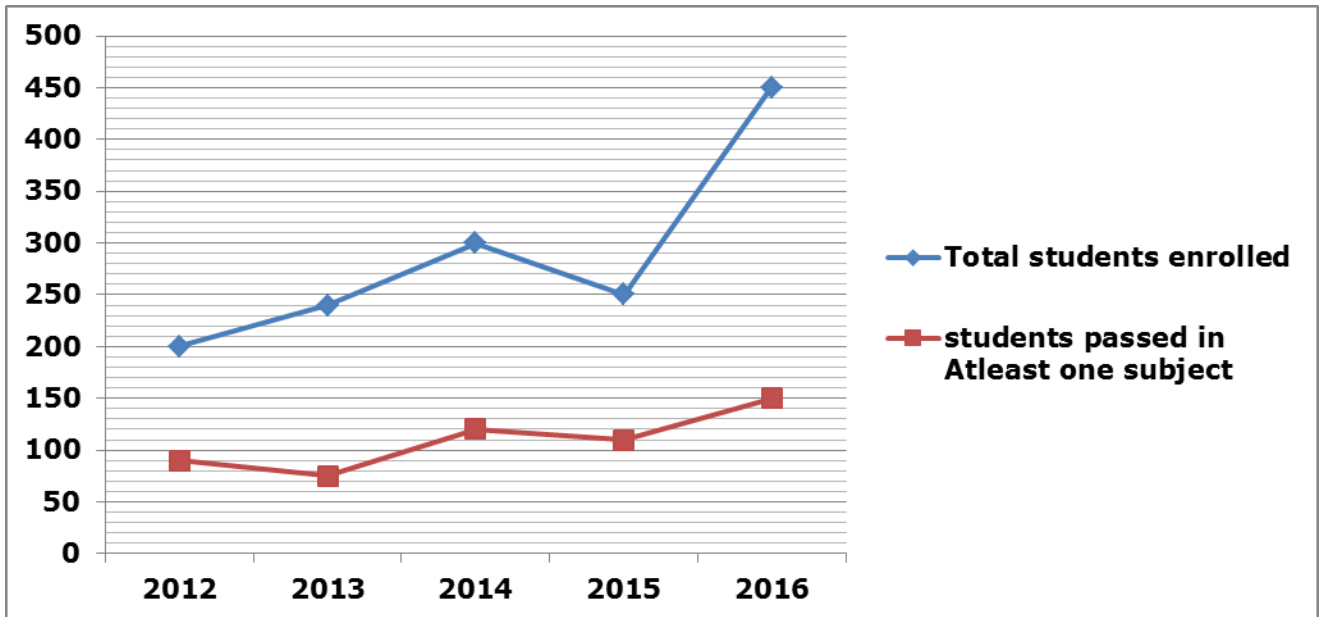
Total students enrolled = students passed in at least one subject + students not qualified.

6) In 2016, out of the total not qualified students, 20% of the students re-apply for the exam in 2017. (In 2017 total students enrolled = re-applied from 2016 + new applicants). The ratio of the number of students who passed in at least one subject in 2013 and 2017 is 3:2. Out of the total passed students in 2017, 96% are new applicants, then find the number of re-applied students who did not qualify in 2017.

a) 58

b) 64

c) 66

d) 56

e) 54

7) In 2012, there were three subjects A, B and C. 20% of students passed in only subject A, 30% students passed in only B and 20% students passed in only subject C. Number of students passed in all three subjects is 9, then find the number of students who passed in exactly two subjects.

a) 12

b) 14

c) 16

d) 18

e) 20

8) What is the ratio of the number of students not qualified in 2012 to the number of students qualified in 2015?

a) 1:2

b) 2:1

c) 1:1

d) 3:2

e) 2:3

9) What is the average number of students who are not qualified in 2013, 2014 and 2016?

a) 220

b) 215

c) 218

d) 212

e) None of these

10) The number of students who are not qualified in 2017 is 30% more than that of 2015. What is the difference between the number of students who are not qualified in 2017 and 2012?

a) 68

b) 70

c) 72

d) 74

e) 76

Directions (11-15): Study the following information carefully and answer the questions given below.

The given table shows the quantity distributed by the whole seller of wheat to five different shopkeepers A, B, C, D and E. Total quantity of the wheat is 6000 kg.

Shopkeepers	Cumulative quantity	Sale % out of actual quantity
A	20%	75%
B	42%	70%
C	57%	70%
D	82%	60%
E	100%	50%

11) What is the average unsold quantity of wheat for all the shopkeepers?

a) 421.2 kg

b) 422.4 kg

c) 424.5 kg

d) 426.3 kg

e) 425.8 kg

12) If shopkeeper B got 33% total quantity, then what is the unsold quantity for E? (All respective values are same)

a) 480

b) 520

c) 500

d) 540

e) 560

13) If shopkeeper F got unsold wheat of shopkeeper C and he sold one-third at the cost price and remaining at the profit of 20%, then what is the selling price of shopkeeper F. If C sold his unsold wheat at Rs.10 per kg to F?

a) Rs.2880

b) Rs.2940

c) Rs.3020

d) Rs.3040

e) Rs.3060

14) If shopkeeper A sold wheat at Rs.51 per kg and makes an overall profit of 6.25%, then find the cost price of wheat per kg?

a) Rs.48

b) Rs.52

c) Rs.50

d) Rs.45

e) None of these

15) What is the difference between the sold quantity of wheat in E and C?

a) 85 kg

b) 90 kg

c) 95 kg

d) 100 kg

e) None of these

Directions (16-20): Study the following information carefully and answer the questions given below.

There are three companies A, B and C. The number of vacancies released by A, B and C are 2, 4 and 1 respectively. The number of candidates who got an interview call for each post in A is 24, same for company B are $2x$ and for company C are x. The total number of candidates who applied in C is one-fourth of the total number of candidates applied in B or three-

fifths of the total number of candidates who applied in A. Difference between the number of candidates who get an interview call in B and C is 105.

16) What is the ratio of the number of candidates who got an interview call in B and C?

a) 4:1

b) 8:1

c) 2:1

d) 5:1

e) None of these

17) What is the average number of candidates who got interview calls for all the companies?

a) 61

b) 62

c) 63

d) 59

e) None of these

18) Total number of candidates who applied for B is what percentage more or less than that of A?

a) 120%

b) 140%

c) 150%

d) 110%

e) 160%

19) Out of the total number of candidate who got an interview call from A, 75% are females and after selection process company A allotted its posts to male and female equally, then find the

number of females who did not get Job in that company.

a) 33

b) 35

c) 36

d) 18

e) 27

20) Find the value of x

a) 12

b) 10

c) 15

d) 20

e) 24

21) A rectangle ABCD is given, whose sides AB = CD. It's given that BC = x and CD = 2x + 5. If the area of the rectangle is 168 cm², then find the length of AB?

a) 21 cm

b) 18 cm

c) 12 cm

d) 8 cm

e) 16 cm

22) A person covers a 100 km journey into two parts, the first part he travelled in AC car and the remaining journey he covered in non AC car. If the rent of AC car is Rs.7 per km and for non AC car is Rs.3 per km. If he paid total rent of Rs.340. Then find the distance travelled by non AC car.

a) 8 km

b) 10 km

c) 12 km

d) 16 km

e) 18 km

23) The area of four walls of a room is 128 cm². If the length and breadth of the room were equal and the height of the room is 4 cm, then what is the area of the room?

a) 100 cm²

b) 36 cm²

c) 49 cm²

d) 81 cm²

e) 64 cm²

24) A person spent money on 16% on books. Of the remaining, he spent on travel and tuition in the ratio of 4:3. If the difference of money spent on travel and tuition is Rs.612, then find his income.

a) Rs.5100

b) Rs.5006

c) Rs.5020

d) Rs.5050

e) Rs.5012

25) The speed of Train A and Train B is in the ratio of 3:4 and covered the same distance. The difference between their time taken to travel the same distance is 21 minutes. What is the time taken by train A?

a) 84 minutes

b) 92 minutes

c) 96 minutes

d) 81 minutes

e) 63 minutes

26) x men can complete the piece of work in 41 days and (x + 40) men can complete the same work in 20 days less than that of days taken by x men. Find the value of x.

a) 40

b) 42

c) 44

d) 46

e) None of these

27) A's age 8 years hence will be twice that of B's present age. C's age 6 years ago is equal to the present age of B. Ratio of A's age 4 years hence and C's age 6 years hence is 9:8. Find B's age 8 years ago.

a) 10 years

b) 15 years

c) 18 years

d) 12 years

e) 14 years

Directions (28-31): Following questions have two quantities as Quantity I and Quantity II. You have to determine the relationship between them and give an answer as,

28) Train A of length 100 m traveling at 50 kmph is running in the same direction overtakes train B of length 120 m in 60 seconds.

Quantity I: The speed of train B in kmph, if the speed of train A is faster than train B.

Quantity II: 40 kmph

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II (or) Relationship cannot be established

29) Three vessels A, B and C have a mixture of milk and water, equal quantity in the ratio of 2:3, 3:5 and 4:5 respectively mixed in vessel Y.

Quantity I: % of water in Y

Quantity II: % of water in vessel x, which has 75% milk

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II (or) Relationship cannot be established

30) $((x^2 - b^2)/2) + ab = ax$. x, a, b are positive integers

Quantity I: value of a

Quantity II: value of b

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II (or) Relationship cannot be established

31)

Quantity I: $x^3 - 2x^2 - x + 2 = 0$

Quantity II: $y + 3 = 0$, find the value of y

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II (or) Relationship cannot be established

32) Vessel A contains the mixture of orange and apple juice in the ratio of 4:3 and vessel B contains the mixture of orange and apple juice in the ratio of 3:2. If 28 liters of mixture is taken out from vessel A and poured into vessel B, then the ratio of the milk and water becomes 13:9. If the new quantity of mixture in vessel B is 18 liters more than the initial quantity of vessel A, find the initial quantity of orange juice in vessel A?

A.28 liters

B.40 liters

C.36 liters

D.60 liters

E.None of these

33) A and B started the business with the investment of Rs.4800 and Rs.6400 respectively. After 6 months, B withdrew Rs.1200 from its initial investment and after 2 more months, A added Rs.800 to its initial investment and C Joins the business with the investment of Rs.10000. At the end of one year

and 2 months, the total profit of the business is Rs.53000, then what is the difference between the profit share of A and C?

a) Rs.2000

b) Rs.2800

c) Rs.3000

d) Rs.3600

e) Rs.2700

34) Ratio of the cost price of the Battery to Charger is 2:1 and the cost price of the Battery to Pendrive is 3:1. If the selling price of Battery, Pendrive and Charger are equal and the profit percentage of selling of a battery, a charger and a Pendrive is 25%, then the cost price of the battery is approximately what percent of the selling price of the battery?

a) 65%

b) 126%

c) 131%

d) 98%

e) 78%

35) Rahul has Rs.x. He invested 40% of his sum in SBI bank at 15% simple interest and 20% of the remaining amount he spent on shopping. After 2 years, he added 60% of the remaining amount in the same bank in the same simple interest scheme and the remaining amount spent on Food. If the difference between the total interest received by Rahul after 4 years and the amount spend on Shopping and Food together is Rs.115.2, then find the value of x.

a) Rs.7000

b) Rs.9000

c) Rs.6000

d) Rs.5000

e) Rs.8000

36) If the ratio of the number of boys to girls in the college is 5:4 and the number of girls who like Cricket is 720 which is 45% of the total number of girls in the college. If the percentage of students in the college who like cricket is 44%, then what percent of boys like cricket?

a) 38.7%

b) 41.9%

c) 43.2%

d) 45.6%

e) 48.7%

37) Usha and Nandhini started a work and worked on alternate days. If Nandhini starts the work first, the whole work is completed in 67(1/3) days, while if Usha started the work first, the whole work is now completed in 67 days. Find the ratio of the efficiency of Usha to Nandhini.

a) 3:2

b) 2:3

c) 2:1

d) 1:2

e) 4:3

38) A bag contains 54 shirts of three different colors Red, Blue and Black. The probability of drawing a Red shirt is 1/3 and the number of Black shirts is twice the number of blue shirts in

the bag. Find the probability of drawing a blue shirt from the bag.

a) 3/7

b) 1/6

c) 13/27

d) 2/9

e) 4/27

39) A boat covers 122.5 km distance downstream with 30 kmph and 240 km upstream with 6 kmph. If the speed of the boat and speed of the stream is increased by 11(1/9)% and 25% respectively, then now what is the total time taken by the boat to cover the same distance upstream and downstream?

a) 51.5 hours

b) 52.5 hours

c) 55.5 hours

d) 53.5 hours

e) 56.5 hours

40) Pipe A alone fill the tank in x hours and Pipe B alone fill the tank in (x – 8) hours. If the efficiency of pipe B is double of pipe A and pipe A fill the tank is 50 liters per hour, then what is the capacity of the tank?

a) 400 liters

b) 600 liters

c) 780 liters

d) 640 liters

e) 800 liters

Answer Key with Explanation

1) Answer: A

8 * 0.5 + 1 = 5

5 * 1 + 2 = 7

7 * 1.5 + 3 = 13.5

13.5 * 2 + 4 = 31

31 * 2.5 + 5 = **82.5**

2) Answer: D

3   6   12   36   180   **1332**

   3   6   24   144   1152

Difference of number

3 * 2, 6 * 4, 24 * 6, 144 * 8

3) Answer: A

9   28   55   66   101   **104**

   19   27   11   35   3

19-11 = 8, 27-35 = 8, 11 – 3 = 8

4) Answer: D

209 – 11 = **198**

198 + 22 = 220

220 – 33 = 187

187 + 44 = 231

231 – 55 = 176

5) Answer: B

60.75/1.5 = **40.5**

40.5/1.5 = 27

27/1.5 = 18

18/1.5 = 12

12/1.5 = 8

6) Answer: A

Number of students who are not qualified in 2016 = 450 – 150 = 300

20% of students are re-apply = 20/100 * 300 = 60

Number of students passed at least one subject in 2017 = 2/3 * 75 = 50

Number of new applicant in 2017 = 50 * 96/100 = 48

Total = 48 + 60 = 108

Required answer = 108 – 50 = 58

7) Answer: D

Number of students passed only A = 20/100 * 90 = 18

Number of students passed only B = 30/100 * 90 = 27

Number of students passed only C = 20/100 * 90 = 18

Required answer = 90 – 18 – 27 – 18 – 9 = 18

8) Answer: C

Required ratio = (200 – 90):110

= 1:1

9) Answer: B

Required average = ((240 – 75) + (300 – 120) + (450 – 150))/3

= 215

10) Answer: C

Required difference = 130/100 * (250 – 110) – (200 – 90) =(182-110)

= 72

Directions (11-15):

Unsold quantity of wheat in A = 25/100 * (20/100 * 6000) = 300

Unsold quantity of wheat in B = (42 – 20)/100 * 6000 * 30/100 = 396

Unsold quantity of wheat in C = (57 – 42)/100 * 6000 * 30/100 = 270

Unsold quantity of wheat in D = (82 – 57)/100 * 6000 * 40/100 = 600

Unsold quantity of wheat in E = (100 – 82)/100 * 6000 * 50/100 = 540

11) Answer: A

Required Average = (300 + 396 + 270 + 600 + 540)/5

= 421.2 kg

12) Answer: D

Unsold quantity of wheat in E = (100 – 82)/100 * 6000 * 50/100 = 540

13) Answer: E

Unsold quantity of wheat in C = (57 – 42)/100 * 6000 * 30/100 = 270

Selling price of F = 10 * 1/3 * 270 + 10 * 120/100 * 2/3 * 270

= Rs.3060

14) Answer: A

Sold quantity of A = 20/100 * 6000 * 75/100 = 900

Total selling price = 900 * 51 = Rs.45900

Total cost price = 100/106.25 * 45900 = 43200

CP of per kg = 43200/900 = Rs.48

15) Answer: B

Sold quantity of wheat in C = (57 – 42)/100 * 6000 * 70/100 = 630

Sold quantity of wheat in E = (100 – 82)/100 * 6000 * 50/100 = 540

Difference = 630 – 540 = 90

16) Answer: B

Required ratio = 4 * 2x:x * 1

= 8:1

17) Answer: A

4x * 2x – x * 1 = 105

x = 15

Required average = (24 * 2 + (8 * 15) + 15))/3

= 61

18) Answer: B

C = B/4

C = 3/5 * A

Required percentage = 4C – (5C/3)/(5C/3) * 100

= 140%

19 Answer: B

Total number of candidate who call interview from A = 48

Female candidate = 48 * 75/100 = 36

Male candidate = 48 * 25/100 = 12

Number of vacancy from A = 2

I.e. The number of female candidate who did not get Job in A = 36 – 1 = 35

20) Answer: C

21) Answer: A

x * (2x + 5) = 168

$2x^2 + 5x – 168 = 0$

$2x^2 + 21x – 16x – 168 = 0$

2x(x – 8)+ 21(x – 8) = 0

x = 8

AB = 2* 8 + 5 = 21 cm

22) Answer: B

```
    7          3

         3.4

    0.4     3.6
```

=1:9

7x + 3(100 – x) = 340

7x – 3x = 40

x = 10 km

23) Answer: E

Area of the wall = 2lh + 2bh

l = b

4 * l * h = 128

l = 128/16 = 8 cm

Area of the floor = 8 * 8 = 64 cm²

24) Answer: A

4x – 3x = 612

x = 612

Income of the person = 100/(100 – 16) * (7 * 612)

= Rs.5100

25) Answer: A

Time ratio of A and B = 4:3

4x – 3x = 21 minutes

Required time = 21 * 4 = 84 minutes

26) Answer: B

x * 41 = (x + 40) * 21

41x = 21x + 840

x = 42

27) Answer: D

A + 8= 2B

C – 6 = B

(A + 4)/(C + 6) = 9/8

(2B – 8 + 4)/(B + 6 + 6) = 9/8

9B + 108 = 16B – 32

B = 20

Required answer = 20 – 8 = 12 years

28) Answer: C

Quantity I,

Speed of train B = x

100 + 120 = (50 - x) * 5/18 * 60

660 = 2500 – 50x

x = 36.8 kmph

Quantity II,

40 Kmph

Quantity I<quantity II

29) Answer: A

Quantity I,

Let the Total quantity = 360

Water quantity = 360 * (3/5 + 5/8 + 5/9) = 641

Required % = 641/1080 * 100 = 59.35%

Quantity II,

Water = 100 – 75 = 25%

Quantity I>quantity II

30) Answer: E

$(x^2 – b^2)/2 = ax – ab$

$(x + b) * (x – b) = 2a(x – b)$

x + b = 2a

Relationship cannot be established

31) Answer: A

Quantity I,

$x^3 – 2x^2 – x + 2 = 0$

$(x – 2) * (x^2 – 1) = 0$

x = 2, 1, -1

Quantity II,

y = -3

Quantity I>quantity II

32) Answer: B

Orange in 28 liters = 28 * 4/7 = 16 liters

Apple juice in 28 liters = 28 * 3/7 =12 liters

Orange juice in vessel B = 3x

Apple juice in vessel B = 2x

(3x + 16)/(2x + 12) = 13/9

26x + 156 = 27x + 144

x = 12 liters

Initial quantity of vessel B = 12 * 5 = 60 liters

New quantity of juice in vessel B = 60 + 28 = 88 liters

Initial quantity of vessel A = 88 -18 = 70 liters

Initial quantity of orange juice = 70 * 4/7 = 40 liters

33) Answer: C

Profit ratio of A, B and C = (4800 * 8 + 5600 * 6):(6400 * 6 + 5200 * 8):(10000 * 6)

= 72000:80000:60000

= 18:20:15

Required difference = 3/53 * 53000

= Rs.3000

34) Answer: C

CP of Battery = 2x

CP of Charger = x

CP of pendrive = 1/3 * 2x = 2x/3

SP of Battery = SP of Charger = SP of Pendrive = y

Total CP = 2x + x + 2x/3 = 11x/3

Total SP = y + y + y = 3y

3y – 11x/3 = 11x/3 * 25/100

3y – 11x/3 = 11x/12

3y = 11x/12 + 11x/3

3y = 55x/12

x/y = 36/55

x = 36k, y = 55k

Required percentage = (36k * 2)/55k * 100

= 131%(approx)

35) Answer: E

SI = (x * 40/100 * 15 * 4)/100 = 0.24x

Shopping = x * 60/100 * 20/100 = 0.12x

After 2 years he invests 60% of remaining amount in the same bank in same scheme, SI = (x * 60/100 * 80/100 * 60/100 * 15 * 2)/100

= 0.0864x

Food = 0.48x * 40/100 = 0.192x

(0.24x + 0.0864x) – (0.12x + 0.192x) = 115.2

0.0144x = 115.2

x = 8000

36) Answer: C

Number of girls = 720 * 100/45 = 1600

Number of boys = 1600 * 5/4 = 2000

Total number of students who like cricket = (2000 + 1600) * 44/100 = 1584

Number of boys like cricket = 1584 – 720 = 864

Required percentage = 864/2000 * 100 = 43.2%

37) Answer: A

If Nandhini started the work, Nandhini and Usha completed the work in = 3/202

Nandhini works for 34 days while Usha works for 33(1/3) days

If Usha started the work, then Nandhini and Usha together can complete the whole work = 67 days

Usha works for 34 days while Nandhini work for 33 days

34x + 33(1/3)y = 34y + 33x

x = 2/3 * y

Required ratio Nandhini to Usha = 2:3

38) Answer: D

Number of red shirts = 54 * 1/3 = 18

Remaining = 54 – 18 = 36

Number of black shirt = 2x

Number of blue shirts = x

2x + x = 36

x = 12

Required probability = $12C_1/54C_1$

= 2/9

39) Answer: A

Speed of downstream = 30 kmph

Speed of upstream = 6 kmph

Speed of boat = (30 + 6)/2 = 18 kmph

Speed of stream = (30 – 6)/2 = 12 kmph

New speed of boat = 18 * 1000/900 = 20 kmph

New speed of stream = 12 * 125/100 = 15 kmph

Required time = 122.5/(20 + 15) + 240/(20 – 15)

= 3.5 + 48

= 51.5 hours

40) Answer: E

Pipe A alone fill 50 liters per hour, so Pipe B alone fill 100 liters per hour.

Capacity of the tank = T

T/50 – T/100 = x – (x – 8)

T = 800 liters

SBI PO Mains 2021 Memory Based

Directions (01-03): Study the following information carefully and answer the questions given below.

Train X: Train X travels from Station A to Station B. It reduces its speed by 25% after travelling 60km and travels the remaining distance with the reduced speed and reaches Station B by 10 Am.

Train Y: Train Y travels from Station A to Station B. It reduces its speed by 25% after travelling 90km and travels the remaining distance with the reduced speed and reaches Station B by 9.45 Am.

Note:-

If both Train X and Train Y travelling at their original speed,they reached station B at8.30 Am. Both the trains started atthe same time.

1) Find the total distance between Station A and Station B.

a) 240km

b) 200km

c) 225km

d) 250km

e) 190km

2) If the Speed of train Z is 200% more than the Speed of train X, then find the time taken by it to cover the distance between Station A and B.

a) 1hr

b) 2.5hr

c) 3hr

d) 2.3hr

e) 2hr

3) Find the ratio of time taken Train X and Y to cover half of the distance between Station A and B.

a) 7:9

b) 13:12

c) 14:13

d) 7:8

e) 1:1

Directions (04-05): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer.

I. $2x^2 + 7x + k = 0$

II. $(ay+b)^2 = 0$

Largest root of Equation I is root of Equation 2

Smallest root of Equation I is -2.

4) If $p = -2 * \sqrt{(k+3)}$, then find the value of P.

a) -6

b) 6

c) 8

d) 7

e) -5

5) Find the value of b in equation II.

a) 2

b) 0

c) Cannot be determined

d) 7

e) -5

Directions (06-08): Study the following information carefully and answer the questions given below.

The given missing table chart shows 40% of total work done by three persons i.e. A, B and C and also given the time taken by each person to complete the whole work (in hours).

Person	40% of total work (in units)	Time taken (in hours)
A	24	12
B	-	15
C	20	-

Note: The efficiency of B is 60% more than the efficiency of A.

6) The efficiency of D is 40% less than the efficiency of E. B, D and E together can complete a work in 7.5 hours. If B and D started work and after x hours, B left and E joined and the remaining work was completed in 4 hours, then find the value of x?

a) 8 hours

b) 3 hours

c) 7 hours

d) 9 hours

e) None of these

7) The efficiency of C is 37.5% less than the efficiency of B. If C works with 40% more than his original efficiency, then how many hours before C will complete the work?

a) 11/7 hours

b) 15/7 hours

c) 20/7 hours

d) 18/7 hours

e) None of these

8) The time taken by B and X alone completes the work in the ratio of 1:4 respectively. If B and X together working and after completing work, they got Rs.7450 and the wages have divided the proportion of their work, then find the share of X?

a) Rs.1420

b) Rs.1560

c) Rs.1450

d) Rs.1490

e) None of these

9) Three persons A, B and C enter into a partnership with an initial investment of Rs.12000, Rs.15000, and Rs.24000 respectively. After 3 months of investment A withdraws 33.33% of investment and after 3 more months, B adds 16.67% of investment and after 3 more months A adds 40% of his initial investment and C adds 37.5% of investment. At the end of one year the difference in the profit obtained by A and B is Rs.3030, then find the total profit of A, B and C together.

a) Rs.32220

b) Rs.31380

c) Rs.30150

d) Rs.31200

e) Rs.32500

10) Vessel A contains 512 liters of a mixture of milk and water in the ratio of 5:3 respectively and the quantity of milk in vessel B is 60% out of the mixture. If vessels A and B are mixed together,

the ratio of milk and water becomes 8:5, then find the quantity of water in vessel B?

a) 300 liters

b) 255 liters

c) 192 liters

d) 128 liters

e) 291 liters

11) The income of Linda is 72% of the income of Nancy and the ratio of savings of Linda and Nancy is 27:40 respectively. If the saving of Nancy is Rs.4500 which is Rs.900 more than the expenditure of Linda, then find the income of Nancy?

a) Rs.12500

b) Rs.9000

c) Rs.10800

d) Rs.10000

e) None of these

12) Luke invested Rs.(x+1300) in simple interest at the rate of 24% per annum for 5 years and Atlas invested Rs.x in compound interest at the rate of 25% per annum for 2 years. If the interest received by Luke is Rs.3600 more than the interest received by Atlas, then find the value of x?

a) Rs.4500

b) Rs.3200

c) Rs.5100

d) Rs.4000

e) None of these

Directions (13-17): Study the following information carefully and answer the questions given below.

There are three different departments i.e. HR, marketing and finance in two organizations A and B.

Total number of employees=Number of existing employees + Number of newly joined employees

Organization A: The number of existing employees in the finance department is 10 more than the average number of existing employees in the HR and marketing departments. The total number of employees in the finance department is 25% more number of employees in the marketing department. The number of existing employees in the finance department is 28 and the total number of employees in all three departments is 70. The number of newly joined employees in each department is equal.

Organization B: Total number of employees in the HR department is 140% more than the total number of employees in the finance department and the ratio of the number of existing and newly joined employees in the HR department is 7:1 respectively. The number of newly joined employees in the finance department is 30% out of the total number of employees. The total number of employees in the HR department is four times the total number of employees in the marketing department. The number of newly joined employees in the marketing department is 33(1/3)% less than the number of newly joined employees in the HR department.

Note: The sum of the number of existing employees in the HR department of organization A and the number of existing employees in the finance department of organization B is 28.

13) Number of existing employees in all three departments of organization B is what percentage more/less than the total number of employees in the HR and marketing departments of organization A?

a) 32% more

b) 42% less

c) 60% more

d) 26% less

e) None of these

14) Find the difference between the number of existing employees in all three departments of organization A and the total number of employees in the marketing and finance departments of organization B?

a) 32

b) 51

c) 45

d) 27

e) None of these

15) If the total number of employees in the marketing department of organization C is 12.5% more than the total number of employees in the HR department of organization A and the ratio of the total number of employees in all three departments of organizations B and C is 8:9 respectively, then find the total number of

employees in HR and finance departments of organization C?

a) 62

b) 48

c) 80

d) 72

e) 56

16) If the ratio of the number of male to female employees in HR and finance departments of organization B is 5:3 and 3:2 respectively, then find the average number of female employees in HR and finance departments of organization B?

a) 17

b) 35

c) 13

d) 21

e) None of these

17) Find the ratio of the number of newly joined employees in all three departments of organization B and the average number of employees in the marketing department of organizations A and B together?

a) 5:4

b) 8:9

c) 7:3

d) 2:1

e) None of these

Directions (18-19): What value should come in the place of (?) in the following number series?

18) What is the value of $z=y*5-x^2/20$?

Series I: x, y, 106, 108, 111, 117, 132, 177

a) 55

b) 30

c) 20

d) 70

e) 45

19) What is the value of $z=2.4y-x/5$?

Series I: x, y, 310, 335, 300, 355, 290, 375

a) 717

b) 438

c) 346

d) 575

e) 854

Directions (20-22): Following questions have two quantities as Quantity I and Quantity II. You have to determine the relationship between them and give the answer.

20) $(p+q)/2 – r = 13$

Quantity I: If 9 is subtracted from r then it reduces to 75% itself, then what is the value of $(p+q)$?

Quantity II: If q:r=17:12 and p is 4 less than that of q, then what is the value of $(q+r)$?

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II or Relation cannot be established

21) $x+y+z=169$ and $x≠y≠z$

Quantity I: if (71.43% of y-15)/3=15 and x+y=129, then what is the value of y-z?

Quantity II: if x*8x/9-40²=200 and y>z, then what is the value of y?

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II or Relation cannot be established

22)

Quantity I: 15 men can complete a work in 10 days and 18 women complete the same work in 25 days, then how many days 15 men and 15 women complete the work?

Quantity II: 25 men can do a piece of work in 12 days working 8 hours in a day. Then how many days are required to complete 50% of the work in 15 men working 10 hours in a day?

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity II > Quantity I

d) Quantity II ≥ Quantity I

e) Quantity I = Quantity II or Relation cannot be established

Directions (23-25): Following questions contain two statements as the statement I and statement II. You have to determine which statement/s is/are necessary to answer the question and give the answer.

23) Find the speed of the boat in still water?

Statement I: The time taken by the boat covers a certain distance downstream in 5 hours and the same distance covered by the boat upstream in 10 hours and then the speed of the stream is 12 km/hr.

Statement II: The upstream speed of the boat is 50% of the downstream speed of the boat and the difference between the speed of the boat in downstream and upstream in 24 km/hr.

a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question

b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question

c) The data either in statement I alone or in statement II alone is sufficient to answer the question

d) The data given in both statements I and II together are not sufficient to answer the question

e) The data given in both statements I and II together are necessary to answer the question.

24) Find the cost price of a laptop?

Statement I: The marked price of a laptop is Rs.16800 more than its cost price.

Statement II: If the shopkeeper offers a 15% discount on the marked price of a laptop and then the shopkeeper gets a profit of 14.75%.

a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question

b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question

c) The data either in statement I alone or in statement II alone is sufficient to answer the question

d) The data given in both statements I and II together are not sufficient to answer the question

e) The data given in both statements I and II together are necessary to answer the question.

25) Find the area of the rectangle?

Statement I: The breadth of the rectangle is 25% less than the side of the square and the sum of the area of the rectangle and square is 3421 m^2.

Statement II: Ratio of the length and breadth of the rectangle is 15:11 respectively and if the cost of fencing the rectangular field is Rs.5460 at the rate of Rs.35 per meter.

a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question

b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question

c) The data either in statement I alone or in statement II alone is sufficient to answer the question

d) The data given in both statements I and II together are not sufficient to answer the question

e) The data given in both statements I and II together are necessary to answer the question.

Directions (26-30): Study the following information carefully and answer the questions given below.

The bar graph given below shows the percentage of total episodes of four shows namely A, B, C and D liked by Derry and also the percentage of the number of episodes watched by Derry in the respective shows. The total number of episodes of all shows together is 'X'.

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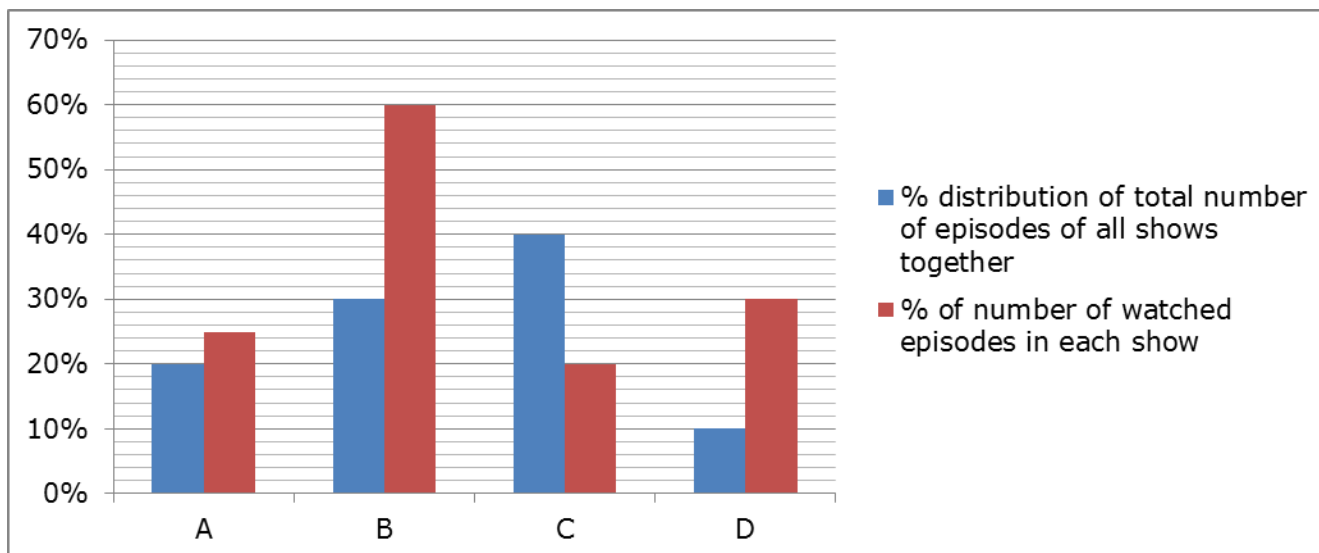
Note:-

The average number of episodes watched by Derry in shows A and D is 'X'-192.

Derry spends 30min, 24min, 8min and 35 min to watch show A, Show B, Show C and Show D respectively every day and does not watch any episode more than the given time.

The extra time available after watching an episode of a show is used to watch the next episode and the remaining part of the episode not watched is carried on to the next day.

Each episode is of 20 minutes duration.

26) Find the ratio of the number of days taken by Derry to watch unwatched episodes of Show B and Show D.

a) 5:2

b) 4:5

c) 5:9

d) 3:2

e) 4:3

27) If after Day 9 of watching Show B (completed Day 9), what is the time taken to watch the remaining episode on Day 10 which was left incomplete on Day 9?

a) 8 min

b) 20 min

c) 16 min

d) 12 min

e) 4 min

28) If Derry spends 40 min each day watching unwatched episodes of Show D, then find how many days before he completes watching the episodes than the original time?

a) 5 days

b) 4 days

c) 1 day

d) 6 days

e) 3 days

29) Derry decides to watch an additional show E. The number of episodes in Show E is 37.5% more than the number of episodes in Show C and the number of watched episodes is 27.27% of the total number of episodes in Show E and spends 50 min watching an unwatched episode. Find the total number of days taken by Derry to watch the unwatched episodes

a) 30

b) 32

c) 40

d) 45

e) 48

30) The total number of watched episodes of Show B and D is what percentage more are less than the average of the total number of Unwatched episodes of A,C, and D?

a) 16.66% more

b) 25% more

c) 15% less

d) 20% more

e) 50% less

Directions (31-35): Study the following information carefully and answer the questions given below.

The given table below gives the Time of investment and rate of interest at which Riya invests in three schemes namely A, B, and C.

Schemes	Time of Investment	Rate of interest per annum
A	30 years	$Y^2 - 10y - 75 = 0$
B	$Y^2 - 3y - 4 = 0$	20%
C	25 years	-

Note:-

If the time period of investment is more than the Rate of interest per annum then Riya invests in Simple Interest.

If the time period of investment is less than the Rate of interest per annum then Riya invests in Compound Interest.

Riya and Diya invest in Scheme D for a period of 10 years and the investment of Diya is Rs.20000. The investment of Riya is equal to the compound interest obtained by Riya in Scheme B.

The rate of interest in Scheme C is more than the rate of interest in Scheme A.

All the Rate of interest is compounded annually.

31) If the investment of Riya in Scheme B is 40% more than the investment of Diya in Scheme D and the Rate of interest in which Riya and Diya invests in scheme D is 2:3, then find the total interest obtained by Riya and Diya in Scheme D (both invests in Simple interest and the rate of interest in which Riya invests in scheme D is equal to the rate of interest in which Riya invested in Scheme B)

a) Rs.100768.6

b) Rs.121500.6

c) Rs.121152.6

d) Rs.120121.6

e) Rs.120000.6

32) Find ratio of time investment of Riya in scheme A and C to the rate of interest of Scheme B.

a) 6:11

b) 11:4

c) 4:5

d) 3:2

e) 5:6

33) Rate of interest at which Riya invested in Scheme C follows the equation $x^2 - 2x - 48 = 0$ and the Interest obtained by Riya in Scheme C is

Rs.10000, then find the investment of Riya in Scheme C.

a) 9000

b) 9500

c) 7500

d) 6000

e) 5000

34) If the investment of Diya in Scheme A is 20% more than the investment of Diya in Scheme D and the investment ratio of Riya and Diya in Scheme A is 47:48, then find the Interest obtained by Riya in Scheme A.

a) Rs.105750

b) Rs.105800

c) Rs.106000

d) Rs.107000

e) Rs.100050

35) The rate of interest in which Riya invested in Scheme A is the same as the rate of interest in which Riya invested in Scheme E and the time of investment by Riya in Scheme E is 50% less than the time of investment by Riya in Scheme B. Find the interest obtained by Riya in Scheme E if the investment of Riya in Scheme E is 30000.

a) Rs.9564

b) Rs.9675

c) Rs.9884

d) Rs.9845

e) Rs.9995

Answer Key with Explanation

Directions (1-3) :

Both Train X and Y travels at the same speed as it is given that both trains start at the same time and reach at the same time.

Let the speed of train X and train Y be x

Train X:

Reduced speed = x * 75/100 = 0.75x

Train X travels 60 km with a speed of x and travels the remaining distance with the reduced speed 0.75x.

Let the remaining distance travelled by Train X be 'D'.

If the train travelled by original speed it will cover the 'D' distance by the original speed i.e x.

The difference between the time taken to travel 'D' distance with reduced speed and original speed is 1.5 hr (10 am - 8.30am=1.5hr)

(D/0.75x) - (D/x) = 3/2

d/x = 9/2 ----------(1)

Train Y:

Reduced speed = x * 75/100 = 0.75x

Train X travels 90 km with a speed of x and travels the remaining distance with the reduced speed 0.75x.

Let the remaining distance be D-30.

If the train travelled by original speed it will cover the 'D-30' distance by the original speed i.e z.

The difference between the time taken to travel 'D-30' distance with reduced speed and original speed is 1 hr 15 min (9.45-8.30=1hr 15 min)

$(D-30/0.75x) - (D-30/x) = 5/4$

$D – 30 – 0.75D + 22.5 = 3.75x/4$

$D - 3.75x = 30$ ----------(2)

Substitute (1) in (2)

$9x/2 - 3.75x = 30$

$x = 40km/hr$

$D - 3.75 * 40 = 30$

$D = 180km$

1) Answer: A

Total distance = 60+180 = 240km

2) Answer: E

Speed of Train Z = 40 * 300/100 = 120km/hr

Time taken = 240/120 = 2hr

3) Answer: C

Time taken by Train X to cover half of the distance (120 km)

Train X travels with the speed of 40kmhr for 60km and with the speed of 30km/hr for 60km, because after travelling 60km Train X reduces its speed to 30kmhr.

Time taken by Train X = (60/40) + (60/30) = 3.5 hr

Time taken by Train Y to cover half of the distance (120 km)

Train Y travels with the speed of 40kmhr for 90km and with the speed of 30km/hr for 30km., because after travelling 90km it reduces its speed.

Time taken by Train X = (90/40) + (30/30) = 3.25 hr

Required ratio = 3.5:3.25 = 14:13

Directions (4-5) :

$2x^2 + 7x + k = 0$

$2x^2 + 4x + 3x+ k = 0$

$\div 2$

Smallest root is -2, So the other root is -1.5

$x^2 + 2x +1.5x + k/2 = 0$

Sum of the roots = 4+3 = 7

Product of the roots = 2k

$2k = 4 * 3$

$k = 6$

4) Answer: A

$p = -2 * \sqrt{(k+3)}$

$p = -2 * \sqrt{(6+3)}$

$= -6$

5) Answer: C

The root of equation II is equal to the largest root of equation I

Largest root of equation I = -1.5

$(ay+b)^2 = 0$

$ay+b = 0$

$a * (-3/2) + b = 0$

$-3a/2 + b = 0$

$a/b = 2/3$

The value of b cannot be determined.

Directions (6-8) :

Total work done by A=24*100/40=60 units

Work done by A=60/12=5 units/hour

Work done by B=5*160/100=8 units/hour

Total work done by B=15*8=120 units

Total work done by C=20*100/40=50 units

6) Answer: A

D and E together complete the work=1/7.5-1/15

=1/15

Ratio of the efficiency of D and E=60:100=3:5

D alone complete the work=1/5x

E alone complete the work=1/3x

1/5x+1/3x=1/15

1/x=1/8

D alone complete the work=5*8=40 hours

E alone complete the work=3*8=24 hours

Total work (15, 40, 24)=120 units

(1/15+1/40)*x+(1/40+1/24)*4=1

8x/120+3x/120+12/120+20/120=1

11x+32=120

x=8

7) Answer: C

Efficiency B=120/15=8 units/hour

Efficiency of C=62.5% of 8=8*5/8=5 units/hour

Efficiency of C is increased 40% by C=5*140/100=7 units/hour

Required time=50/5-50/7 = 20/7 hours

8) Answer: D

Time taken by B alone complete the work=15 hours

Time taken by X alone complete the work=15*4/1=60 hours

Ratio of the efficiency of B and X=4:1

Share of X=7450*1/5=Rs.1490

9) Answer: A

Profit ratio of A, B and C = (12000*3)+(12000 * 200/300 *6) + (12000 *140/100 * 3) : (15000*6)+(15000 * 700/600 *6) : (24000*9)+(24000*137.5/100*3)

= 134400:195000:315000

= 224:325:525

Difference in profit of A and B = 325x-224x = 101x

101x=3030

x = 30

Total profit = 224x + 325x + 525x = 1074x

= 1074 * 30 = Rs.32220

10) Answer: D

Milk in vessel A=512*5/8=320 liters

Water in vessel A=512-320=192 liters

Total quantity of vessel B = 5x

Milk in vessel B= 5x * 60/100 = 3x

Water in vessel B=5x * 40/100 = 2x

(320+3x)/(192+2x)=8/5

1600+15x = 1536 + 16x

64 = x

Water in vessel B=2*64=128 liters

11) Answer: A

Income of Nancy=100x

Income of Linda=100x*72/100=72x

Savings of Nancy=Rs.4500

Expenditure of Linda=4500-900=Rs.3600

72x-27y=3600   ---- (1)

100x-40y=4500   ---- (2)

(1)*100-(2)*72

7200x-2700y=360000

-7200x+2880y=-324000

180y=36000

y=200

x=125

Income of Nancy=100*125=Rs.12500

12) Answer: B

$(x+1300)*24*5/100-[x*(1+25/100)^2-x]=3600$

(x+1300)*6/5-25x/16+x=3600

6x/5-25x/16+x=2040

51x=163200

x=3200

Directions (13-17):

Organization A:

Total number of employees in all three departments = 70

The average number of existing employees in HR and marketing departments = x

Number of existing employees in the finance department (x+10) = 28

28 = x + 10

X = 18

Number of existing employees in HR and marketing departments = 18 * 2 = 36

Number of newly joined employees in each department = y

3y + 28 + 36 = 70

3y = 6

y = 2

Total number of employees in the finance department = 28 + 2 = 30

Total number of employees in the marketing department = 30 * 100/125 = 24

Number of existing employees in the marketing department = 24 – 2 = 22

Number of existing employees in the HR department = 36 – 22 = 14

Organization B:

Number of existing employees in the finance department = 28 – 14 = 14

Number of newly joined employees in the finance department = 14 * 30/70 = 6

Total number of employees in the finance department = 14 + 6 = 20

Total number of employees in the HR department = 20 * 240/100 = 48

Number of newly joined employees in the HR department = 48 * 1/8 = 6

Number of existing employees in the HR department = 48 – 6 = 42

Total number of employees in the marketing department = 48/4 = 12

Number of newly joined employees in the marketing department = 6 * 66.66/100

= 6 * 2/3 = 4

Number of existing employees in marketing department = 12 – 4 = 8

Organization	HR		Marketing		Finance	
	Existing	Newly	Existing	Newly	Existing	Newly
A	14	2	22	2	28	2
B	42	6	8	4	14	6

13) Answer: C

Number of existing employees in HR, marketing and finance departments of organization B = 42 + 8 + 14 = 64

Total number of employees in HR and marketing departments in organization A = 14 + 2 + 22 + 2 = 40

Required percentage = (64 - 40)/40 * 100 = 60% more

14) Answer: A

Required difference = (14 + 22 + 28) - (8 + 4 + 14 + 6) = 32

15) Answer: D

Total number of employees in all three departments of organization B = 42 + 6 + 8 + 4 + 14 + 6 = 80

Total number of employees in all three departments of organization C = 80 * 9/8 = 90

Total number of employees in the marketing department of organization C = 16 * 112.5/100 = 16 * 9/8 = 18

Total number of employees in HR and marketing departments of organization C=90-18=72

16) Answer: C

Number of female employees in the HR department of organization B=48*3/8=18

Number of female employees in the Finance department of organization B=20*2/5=8

Required average=(18+8)/2=13

17) Answer: B

The average number of employees in the marketing department of organizations A and B=(24+12)/2=18

Required ratio=(6 + 4 + 6):18

=8:9

18) Answer: C

100+4=104

104+4*0.5=104+2=106

106+2*1=106+2=108

108+2*1.5=108+3=111

111+3*2=111+6=117

117+6*2.5=117+15=132

132+15*3=132+75=177

z=104*5-100*100/20

z=520-500

z=20

19) Answer: A

315   325   310   335   300   355   290   375

  +2*5   -3*5   +5*5   -7*5   +11*5 -13*5 +17*5

z=325*2.4-315/5

z=717

20) Answer: A

From quantity I,

r-9 = r * 75/100

r-9 = 3r/4

r=36

(p+q)/2 – 36 = 13

p+q = 98

From quantity II,

q=17x

r=12x

p=17x-4

(17x-4+17x)/2 - 12x = 13

34x-4-24x=26

10x=30

x=3

q+r=17*3+12*3=87

Quantity I > Quantity II

21) Answer: C

From quantity I,

(71.43% of y-15)/3=15

5y/7-15=45

5y/7=60

y=84

x=129 – 84 =45

z=169-45-84=40

y-z=84-40=44

From quantity II,

8x^2/9-1600=200

8x^2/9=1800

x^2=2025

x=45

y+z=169-45=124

The possible value of y is above 62

Quantity II > Quantity I

22) Answer: C

From quantity I,

15m*10 = 18w*25

m/w = 3/1

15m+15w = 15m+5m = 20m

Number of days 20m complete the work=x

(15m * 10) = (20m * x)

x=7.5 days

From quantity II,

Number of days=x

25*12*8 = (15*10*x)/(1/2)

x=2400*0.5/(15*10)

x=8 days

Quantity II > Quantity I

23) Answer: C

From statement I,

Speed of the stream=12 km/hr

Speed of the boat=x km/hr

Downstream distance = 5 * (x+12) km

Upstream distance = 10 * (x-12) km

5*(x+12) = 10*(x-12)

5x+60=10x-120

5x=180

x=36 km/hr

So, Statement I alone is sufficient to answer the question.

From statement II,

Difference between the speed of the boat in downstream and upstream=24 km/hr

Speed of the stream=24/2=12 km/hr

Speed of boat = B

Downstream speed = 2x

Upstream speed = 2x * 50/100 = x

B + 12 = 2x

x = B – 12

2x – 12 = x + 12

x = 24

Speed of the boat = 24 + 12=36 km/hr

So, Statement II alone is sufficient to answer the question.

24) Answer: E

From statement I,

CP of a laptop=x

MP of a laptop=x+16800

So, Statement I alone is not sufficient to answer the question.

From statement II,

CP of a laptop=x

SP of a laptop=x*114.75/100

So, Statement II alone is not sufficient to answer the question.

From I and II,

(x+16800) * 85/100=x*114.75/100

(x+16800)*17/20=x*459/400

17x/20+14280=459x/400

459x-340x=5712000

x=48000

CP of a laptop=Rs.48000

Both statements are necessary to answer the question.

25) Answer: B

From statement I,

Side of the square=4x

Breadth of the rectangle=4x*75/100=3x

Length of the rectangle=y

Area of the rectangle +Area of the square=3421 m^2

So, Statement I alone is not sufficient to answer the question.

From statement II,

Length of the rectangle=15x

And the breadth of the rectangle=11x

Perimeter of the rectangle=5460/35=156 m

2*(15x+11x)=156

26x=78

x=3

Length of the rectangle=3*15=45 m

Breadth of the rectangle=3*11=33 m

Area of the rectangle=45*33=1485 m^2

So, Statement II alone is sufficient to answer the question.

Directions (26-30) :

Total number of episodes of all shows together = X

Total number of episodes in Show A = X * 20/100 = X/5

Total number of watched episodes in Show A = (X/5) * 25/100 = X/20

Total number of episodes in Show B = X * 30/100 = 3X/10

Total number of watched episodes in Show B = (3X/10) * 60/100 = 9X/50

Total number of episodes in Show C = X * 40/100 = 2X/5

Total number of watched episodes in Show C = (2x/5) * 20/100 = 2X/25

Total number of episodes in Show D = X * 10/100 = X/10

Total number of watched episodes in Show D = (X/10) * 30/100 = 3X/100

The average number of episodes watched by Derry in shows A and D = 'X'-192.

((X/20)+(3X/100))/2 = X - 192

X = 200

Show A:

Total number of episodes in Show A = 200 * 20/100 = 40

Total number of watched episodes in Show A = 40 * 25/100 = 10

Total number of unwatched episodes in Show A = 40 – 10 = 30

Derry spends 30min to watch remaining episodes of Show A

Total days taken by Derry to watch unwatched episodes in show A

= (30*20)/30 = 20 days

Show B:

Total number of episodes in Show B = 200 * 30/100 = 60

Total number of watched episodes in Show B = 60 * 60/100 = 36

Total number of unwatched episodes in Show B = 60 – 36 = 24

Derry spends 24min to watch the remaining episodes of Show B

Total days taken by Derry to watch unwatched episodes in show B

= (24*20)/24 = 20 days

Show C:

Total number of episodes in Show C = 200 * 40/100 = 80

Total number of watched episodes in Show C = 80 * 20/100 = 16

Total number of unwatched episodes in Show C = 80 – 16 = 64

Derry spends 8min to watch remaining episodes of Show C

Total days taken by Derry to watch unwatched episodes in show C

= (64*20)/8 = 160 days

Show D:

Total number of episodes in Show D = 200 * 10/100 = 20

Total number of watched episodes in Show D = 20 * 30/100 = 6

Total number of unwatched episodes in Show D = 20 – 6 = 14

Derry spends 35min to watch remaining episodes of Show D

Total days taken by Derry to watch unwatched episodes in show D

= (14*20)/35 = 8 days

Shows	Total number of episodes	Total number of watched episodes	Total number of Unwatched episodes	Total number of days taken to watch unwatched episodes
A	40	10	30	20
B	60	36	24	20
C	80	16	64	160
D	20	6	14	8

26) Answer: A

Required ratio = 20:8 = 5:2

27) Answer: E

On Day 10, 4 min is completed in the remaining episode.

28) Answer: C

Total days taken = (14*20)/40 = 7 days

Day difference = 8-7 = 1 day

29) Answer: B

Total number of episodes in Show E = 80 + 80 * 37.5/100 = 110

Total number of watched episodes in Show E = 110 * 300/1100 = 30

Total number of unwatched episodes in Show D = 80

Derry spends 50 min to watch remaining episodes of Show E

Total days taken by Derry to watch unwatched episodes in show E

= (80*20)/50 = 32 days

30) Answer: A

The total number of watched episodes of Show B and D = 42

The average of total number of Unwatched episodes of A,C, and D

= (30+64+14)/3   = 36

Required percentage = (42-36)/36 * 100 = 16.67% more

Directions (31-35)

Rate of interest of Scheme A

$Y^2 - 10y - 75 = 0$

$Y^2 - 15y + 5y - 75 = 0$

$y(y-15)+5(y-15) = 0$

$Y = 15, -5$

Take positive value only So, Rate of interest in Scheme A = 15%

Time of investment of Scheme B

$Y^2 - 3y - 4 = 0$

$y^2 - 4y + y - 4 = 0$

$y(y-4)+1(y-4) = 0$

$y = 4, -1$

Take positive only So the time of investment in Scheme B is 4 years.

Schemes	Time of Investment	Rate of interest per annum
A	30 years	15%
B	4 years	20%
C	25 years	-

31) Answer: D

Investment of Riya in Scheme B = 20000 * 140/100 = Rs.28000

Compound interest obtained by Riya in Scheme B

= (28000 * (1 + 20/100))^4) - 28000

= Rs.30060.8

Rate of interest of Riya in Scheme D = 20%

Rate of interest of Diya in Scheme D = 3*20/2 = 30%

Simple Interest obtained by Riya in Scheme D = 30060.8 * 20 * 10/100 = Rs.60121.6

Simple Interest obtained by Diya in Scheme D = 20000 * 30 * 10/100 = Rs.60000

Total interest obtained by Riya and Diya = 60121.6 + 60000 = Rs.120121.6

32) Answer: B

Required ratio = (30+25):20 = 11:4

33) Answer: E

Rate of interest of scheme C invested by Riya

$x^2 - 2x - 48 = 0$

$x^2 - 8x + 6x - 48 = 0$

$x(x-8)+6(X-8) = 0$

R = 8%

P * 8 * 25/100 = 10000

P = Rs.5000

34) Answer: A

Investment of Diya in Scheme A = 20000 * 120/100 = Rs.24000

Investment of Riya in scheme A = 24000 * 47/48 = Rs.23500

Interest obtained by Riya in scheme A = 23500 * 30 * 15/100 = Rs.105750

35) Answer: B

Rate of interest in Scheme E = 15%

Time period = 4*50/100 = 2 years

The rate of interest is less than the time period, So the investment is in Compound interest

Interest obtained = 30000 * (1 + 15/100)^2 – 30000

= Rs.9675

RRB Clerk Mains 2021 Memory Based

Directions (01-05): What approximate value should come in the place of (?) in the following questions.

1) 95.98 ÷ 7.89 * 5.19 + 119.99 ÷ 9.11 * √730 = ?

a) 400
b) 420
c) 450
d) 410
e) 440

2) √322 * 4.91 – 19.19 * 3.11 = ?

a) 33
b) 36
c) 39
d) 42
e) 30

3) 15.12% of 24.87% of 239.91 = ? – 22.22 * 5.89

a) 137

b) 141

c) 144

d) 148

e) 134

4) 23.21 * 14.98 – 17.891 * 11.11 = ?

a) 143

b) 147

c) 153

d) 157

e) 137

5) $\sqrt{1220}$ * 8.12 + 17.17 ÷ 7.13 * 34.98 = ?

a) 365

b) 370

c) 375

d) 355

e) 350

Directions (6-11): Read the following information carefully and answer the questions.

The given pie chart shows the percentage distribution of the total expenditure of five different companies A, B, C, D and E in 2020.

Profit=Income-Expenditure

Note: Total expenditure of five different companies is Rs.1.6 lakh.

Percentage distribution of the total expenditure
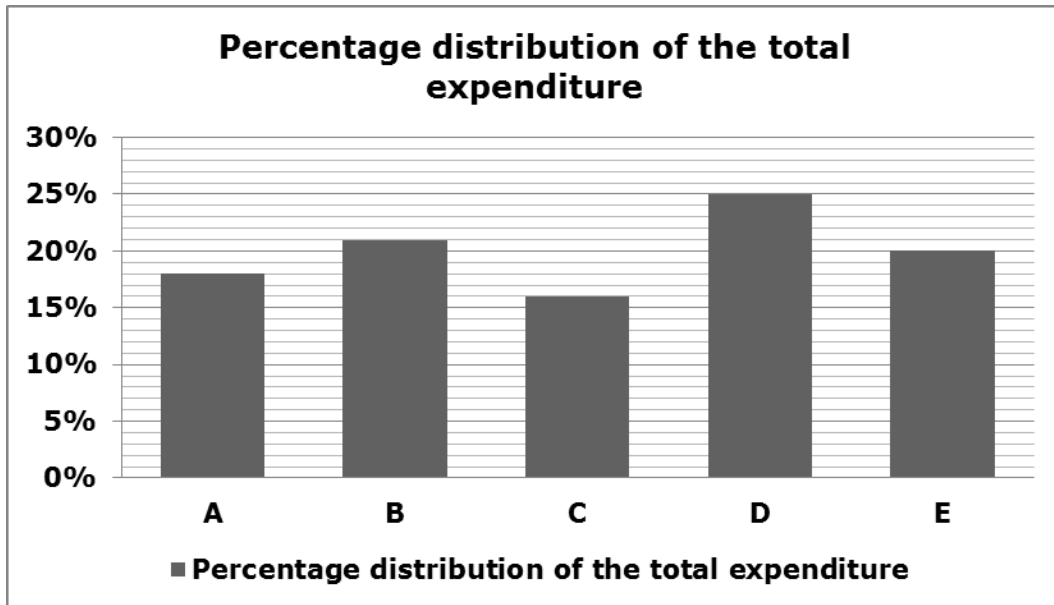
6) If the ratio of the expenditure and profit of company B is 7:3 respectively, then the total income of company B is what percentage more than the total expenditure of company D?

a) 35%

b) 20%

c) 55%

d) 40%

e) None of these

7) In company A, the total profit in 2020 is 10% of the total income of 2020. If the income of company A in 2021 is 20% more than that of the previous year and the expenditure of company A in 2021 is 25% more than that of the previous year, then find the total profit of company A in 2021.

a) Rs.1500

b) Rs.3200

c) Rs.1800

d) Rs.2400

e) None of these

8) Find the difference between the total expenditure of company E and the average expenditure of companies A and C together.

a) Rs.3200

b) Rs.2500

c) Rs.4800

d) Rs.5600

e) None of these

9) If the total income of company D is equal to the total expenditure of companies A and C together, then find the total profit percentage of company D?

a) 36%

b) 21%

c) 15%

d) 42%

e) None of these

10) If the total income of companies C and E together is two times the total expenditure of company B, then find the sum of the total profit of companies C and E together.

a) Rs.7500

b) Rs.9600

c) Rs.6300

d) Rs.8100

e) None of these

11) If the total profit of company F is 37.5% of the total expenditure of company E and the ratio of the total expenditure of companies B and F is 7:5, then find the profit percentage of company F?

a) 50%

b) 25%

c) 30%

d) 15%

e) None of these

12) Kumar invested Rs.x in compound interest at the rate of R% per annum for 2 years. After 2 years, Kumar received the total interest of 44% of the total amount invested. Then find the value of R.

a) 15

b) 10

c) 25

d) 20

e) None of these

13) A and B started the business with the investment of Rs.18000 and Rs.x respectively. After 6 months, A withdrew Rs.3000. At the end of the year, the total profit of the business is Rs.7800 and the profit share of B is 4500, find the value of x.

a) Rs.22500

b) Rs.21000

c) Rs.20400

d) Rs.24500

e) None of these

14) In a mixture A, the ratio of milk to water 7:5. 27 liters mixture taken out and the same quantity of water added in the remaining mixture, then the ratio of the milk to water 7:9, find the initial quantity of milk.

a) 49

b) 56

c) 63

d) 35

e) 70

15) The breadth of the rectangle is 24 cm. Area of the square is 256 cm more than the area of the rectangle. If the length of the rectangle is equal to the side of the square, then find the perimeter of the rectangle.

a) 100 cm

b) 108 cm

c) 120 cm

d) 112 cm

e) 116 cm

16) Ratio of the present age of father to son is 4:1. After 5 years, the age of the father is three times the age of the son. Find after how many years father is 250% of son's age at that time.

a) 6

b) 8

c) 10

d) 5

e) 15

Directions (17-21): Read the following information carefully and answer the questions.

There are a certain number of pens sold in three different months i.e. March, April and May.

March: The total number of pens sold is 125 and the cost price of each pen is Rs.8. 40% of the pens sold at 12.5% profit and the remaining pens sold at 25% profit.

April: All the pens are sold for Rs.2520. The cost price of each pen is Rs.10 and the selling price of each pen is 20% more than that of the cost price.

May: The total number of pens sold is 150. The marked price of each pen is 50% more than the cost price and all the pens are sold at Rs.2400.

17) Find the average of the total revenue generated in March and May together?

a) Rs.1600

b) Rs.1800

c) Rs.1500

d) Rs.1200

e) None of these

18) If the marked price of each pen in April is 50% more than that of the cost price, then find the total discount allowed for all the pens in April?

a) Rs.330

b) Rs.480

c) Rs.510

d) Rs.630

e) None of these

19) In May, the shopkeeper allowed a total discount of Rs.300, then find the total profit earned.

a) Rs.600

b) Rs.450

c) Rs.720

d) Rs.360

e) None of these

20) Total number of pens sold in June is 71.42% of total number of pens sold in April and all the pens sold for Rs.2700. If the shopkeeper earns 20% profit on each pen in June, then find the cost price of each pen in June?

a) Rs.20

b) Rs.18

c) Rs.15

d) Rs.12

e) None of these

21) Find the difference between the selling price of each pen in March and April together?

a) Rs.1.5

b) Rs.2

c) Rs.1.8

d) Rs.2.4

e) None of these

Directions (22-26): Following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give answer as,

22)

I) $x^2 + 11x + 28 = 0$

II) $y^2 + 7y + 12 = 0$

a) x > y

b) x ≥ y

c) x = y (or) relationship can't be determined.

d) x < y

e) x ≤ y

23)

I) $x^2 - 25x + 126 = 0$

II) $y^2 + 6y - 91 = 0$

a) x > y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x < y

e) x ≤ y

24)

I) $x^2 - 3x + 2 = 0$

II) $y^2 - 5y + 6 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x< y

e) x ≤ y

25)

I) $x^2 + 7x – 98 = 0$

II) $y^2 – 21y + 98 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x< y

e) x ≤ y

26)

I) $x^2 – 20x – 69 = 0$

II) $y^2 – 27y + 50 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x< y

e) x ≤ y

Directions (27-32): Read the following information carefully and answer the questions.

The given table chart shows the total number of employees (private and public) in five different cities P, Q, R, S and T in 2020 and also given the total number of private sector employees is more than the total number of public sector employees in five different cities.

City	Total number of employees	Total number of private sector employees – Total number of public sector employees
P	800	160
Q	510	150
R	640	140
S	960	240
T	750	270

27) If the ratio of the total number of male to female employees in city R is 5:3 respectively and the total number of male employees in the private sector in city R is 170 more than that of females, then find the total number of female employees in the public sector in city R.

a) 170

b) 110

c) 130

d) 190

e) None of these

28) Total number of private sector employees in cities P and S together is how much more/less

than the total number of public sector employees in cities Q and R together?

a) 720 more

b) 420 less

c) 550 less

d) 650 more

e) None of these

29) If total number of employees in city K is 75% of total number of employees in city P and the ratio of total number of public sector employees in cities Q to K is 3:4, then find the total number of private sector employees in city K.

a) 320

b) 360

c) 380

d) 340

e) None of these

30) Total number of employees in city R is what percentage more than the sum of total number of public sector employees in cities P and Q together?

a) 28%

b) 45%

c) 36%

d) 10%

e) None of these

31) Find the sum of the average number of private sector employees in cities R and T together and the average number of public sector employees in cities P and T together.

a) 660

b) 840

c) 730

d) 950

e) None of these

32) In city T, total number of private and public sector employees in 2021 is 20% and 35% more than that of 2020, then find the difference between total number of private and public sector employees in 2021?

a) 256

b) 288

c) 272

d) 224

e) None of these

33) Ratio of the marked price to the cost price of the article is 13:10. The shopkeeper offers x% discount on marked price of the article, while he gets the profit of 4%, then find the value of x.

a) 10

b) 15

c) 20

d) 12

e) 18

34) A and B can complete the work in 60 days. B and C can complete the same work in 20 days and B alone complete the same work in 90 days. Find the time taken by C and A to finish the same work while working together?

a) 22.5 days

b) 45 days

c) 36 days

d) 12.5 days

e) 18 days

35) A boat can travel from A to B and come back in 6 hours. If the speed of the stream is increased by 2 kmph, then the boat takes 6 hours to travel from A to B upstream and the distance between A and B is 24 km, then find the speed of the boat in still water.

a) 9 kmph

b) 12 kmph

c) 10 kmph

d) 15 kmph

e) None of these

36) A train travels 350 km with average speed of 35 kmph. After every 70 km of travel it has a stoppage of 2 minutes. Find the time taken by train to cover the same distance without stoppage.

a) 8 hours and 50 minutes

b) 9 hours and 40 minutes

c) 8 hours and 40 minutes

d) 9 hours and 50 minutes

e) None of these

37) Population of city A depreciates by 20% and city B by 8% every year. If after two years, the population of city B is 66800 more than A and the initial population of city B is 40000 more than

A. Find the approximate population of city B initially.

a) 200000

b) 160000

c) 220000

d) 190000

e) 180000

38) Pipe A and Pipe B alone fill the empty tank in 8 hours and x hours respectively. Pipe C can empty 50% of the tank in 8 hours. If all the pipes are opened together and the tank filled completely in 9.6 hours, then find the value of x.

a) 24 hours

b) 28 hours

c) 18 hours

d) 27 hours

e) 30 hours

39) A box contains 5 apples, 4 oranges and 6 mangoes. If two fruits are drawn at random, then find the probability of that being an apple and a mango?

a) 5/8

b) 2/7

c) 1/5

d) 7/12

e) None of these

40) A shopkeeper marks the price of the mobile 50% above the cost price and he allows the two successive discounts 20% and 15%

respectively. What is the percentage of the profit earned by the shopkeeper?

A.1%

B.2%

C.4%

D.3%

E.None of these

Answer Key with Explanation

1) Answer: B

95.98 ÷ 7.89 * 5.19 + 119.99 ÷ 9.11 * √730 = ?

60 + 360 = ?

? = 420

2) Answer: A

√322 * 4.91 – 19.19 * 3.11 = ?

90 – 57 = ?

? = 33

3) Answer: B

15.12% of 24.87% of 239.91 = ? – 22.22 * 5.89

9 + 132 = ?

141 = ?

4) Answer: B

23.21 * 14.98 – 17.891 * 11.11 = ?

345 – 198 = ?

? = 147

5) Answer: A

√1220 * 8.12 + 17.17 ÷ 7.13 * 34.98 = ?

280 + 85 = ?

? = 365

Directions (6-11) :

The total expenditure of five different companies=Rs.160000

The total expenditure of company A=1600 * 18 =Rs.28800

The total expenditure of company B=1600 * 21 =Rs.33600

The total expenditure of company C=1600 * 16 =Rs.25600

The total expenditure of company D=1600 * 25 =Rs.40000

The total expenditure of company E=1600 * 20 =Rs.32000

6) Answer: B

The total income of the company B=33600*10/7=Rs.48000

Required percentage=(48000-40000)/40000*100=8000/400=20%

7) Answer: D

The total income of company A in 2020=28800*100/90=Rs.32000

The total income of company A in 2021=32000*120/100=Rs.38400

The total expenditure of company A in 2021=28800*125/100=Rs.36000

The total profit of company A in 2021=38400-36000=Rs.2400

8) Answer: C

The average expenditure of companies A and C=(28800+25600)/2=54400/2=Rs.27200

Expenditure of company E =32000

Required difference=32000-27200=Rs.4800

9) Answer: A

The total income of company D=28800+25600=Rs.54400

The total profit of company D=54000-40000=Rs.14400

Required percentage=14400/40000*100=36%

10) Answer: B

The total income of companies C and E=33600*2=Rs.67200

The total profit of companies C and E=67200-25600-32000=Rs.9600

11) Answer: A

The total expenditure of company F=33600*5/7=Rs.24000

The total profit of company F=32000*3/8=Rs.12000

Required percentage=12000/24000*100=50%

12) Answer: D

$x*(1+R/100)^2-x=x*44/100$

$(1+R/100)^2-1=44/100$

$(1+R/100)^2=1.44$

$1+R/100=1.2$

$100+R=120$

$R=120-100=20$

13) Answer: A

(18000 * 6 + 15000 * 6)/(x * 12) = (7800 – 4500)/4500

132x = 2970000

x = 22500

14) Answer: C

Milk in 27 liters = 27 * 7/12 = 15.75 liters

Water in 27 liters = 27 * 5/12 = 11.25 liters

(7x – 15.75)/(5x – 11.25 + 27) = 7/9

63x – 141.75 = 35x + 110.25

x = 9

Initial quantity of milk = 7 * 9 = 63 liters

15) Answer: D

Side of the Square = a

Length of the rectangle = a

a^2 - 24 * a = 256

a^2 – 32a + 8a – 256 = 0

a = 32

Perimeter of the rectangle = 2 * (24 + 32)

= 112 cm

16) Answer: C

(4x + 5)/(x + 5) = 3/1

3x + 15 = 4x + 5

x = 10

Present age of father = 4 * 10 = 40 years

Present age of son = 10 years

40 + a = 250/100 * (10 + a)

80 + 2a = 50 + 5a

a = 10

After 10 years, the father's age is 250% of son's age at that time

Directions (17-21):

The total number of pens sold in March=125

The total number of pens sold at 25% profit in March =125*60/100=75

The total number of pens sold at 12.5% profit in March =125-75=50

CP in April=Rs.10

SP in April=10*120/100=Rs.12

The total number of pens sold in April=2520/12=210

The total number of pens sold in May=150

SP in May=2400/150=Rs.16

17) Answer: B

The total revenue generated in March=75*8*125/100+50*8*9/8=Rs.1200

Required average=(1200+2400)/2=3600/2=Rs.1800

18) Answer: D

MP in April=10*150/100=Rs.15

Required discount=15*210-12*210=Rs.630

19) Answer: A

Total revenue generated in May=Rs.2400

MP of all the pens in May=2400+300=Rs.2700

MP of each pen in May=2700/150=Rs.18

CP of each pen in May=18*100/150=Rs.12

Required profit=150*16-150*12=Rs.600

20) Answer: C

Total number of pens sold in June=210*5/7=Rs.150

SP of each pen in June=2700/150=Rs.18

CP of each pen in June=18*100/120=Rs.15

21) Answer: D

SP of each pen in April=10*120/100=Rs.12

Total revenue of 40% of pens in March=50*8*9/8=Rs.450

Total revenue of 60% of pens in March=75*8*125/100=Rs.750

SP of each pen in March=(450+750)/125=Rs.9.6

Required difference=12-9.6=Rs.2.4

22) Answer: E

I)

$x^2 + 11x + 28 = 0$

$x^2 + 7x + 4x + 28 = 0$

$x(x + 7) + 4(x + 7) = 0$

x = -7, -4

II)

$y^2 + 7y + 12 = 0$

$y^2 + 3y + 4y + 12 = 0$

$y(y + 3) + 4(y + 3) = 0$

y = -3, -4

x≤y

23) Answer: B

I)

$x^2 - 25x + 126 = 0$

$x^2 - 7x - 18x + 126 = 0$

$x(x - 7) - 18(x - 7) = 0$

x = 7, 18

II)

$y^2 + 6y - 91 = 0$

$y^2 + 13x - 7y - 91 = 0$

$y(y + 13) - 7(y + 13) = 0$

y = 7, -13

x ≥ y

24) Answer: E

I)

$x^2 - 3x + 2 = 0$

$x^2 - x - 2x + 2 = 0$

$x(x - 1) - 2(x - 1) = 0$

x = 1, 2

II)

$y^2 - 5y + 6 = 0$

$y^2 - 3y - 2y + 6 = 0$

$y(y - 3) - 2(y - 3) = 0$

y = 2, 3

x≤y

25) Answer: E

I)

$x^2 + 7x - 98 = 0$

$x^2 + 14x - 7x - 98 = 0$

$x(x + 14) - 7(x + 14) = 0$

x = 7, -14

II)

$y^2 - 21y + 98 = 0$

$y^2 - 14y - 7y + 98 = 0$

$y(y - 14) - 7(y - 14) = 0$

y= 7, 14

x≤y

26) Answer: C

I)

$x^2 - 20x - 69 = 0$

$x^2 - 23x + 3x - 69 = 0$

$x(x - 23) + 3(x - 23) = 0$

x = 23, -3

II)

$y^2 - 27y + 50 = 0$

$y^2 - 25y - 2y + 50 = 0$

$y(y - 25) - 2(y - 25) = 0$

y = 25, 2

Relationship between x and y cannot be established.

Directions (27-32):

City	Total number of employees	Total number of private sector employees	Total number of public sector employees
P	800	480	320
Q	510	330	180
R	640	390	250
S	960	600	360
T	750	510	240

27) Answer: C

Total number of male employees in city R=640*5/8=400

Total number of female employees in city R=640-400=240

Total number of female employees in the private sector in city R=110

Total number of female employees in the public sector in city R=240-110=130

28) Answer: D

Total number of private sector employees in cities P and S=480+600=1080

Total number of public sector employees in cities Q and R=430

Required difference=480+600-(180+250)=650 more

29) Answer: B

Total number of employees in city K=800*75/100=600

Total number of public sector employees in city K=180*4/3=240

Total number of private sector employees in city K=600-240=360

30) Answer: A

Total number of public sector employees in cities P and Q=320+180=500

Required percentage=(640-500)/500*100=140/5=28%

31) Answer: C

The average number of private sector employees in cities R and T=(390+510)/2=450

The average number of private sector employees in cities P and T=(320+240)/2=280

Required sum=450+280=730

32) Answer: B

Total number of private sector employees in city T in 2021=510*120/100 =612

Total number of public sector employees in city T in 2021=240*135/100 =324

Required difference=612-324=288

33) Answer: C

MP = 13a

CP = 10a

13a * (100 – x)/100 = 10a * 104/100

1300 – 13x = 1040

x = 20

34) Answer: A

LCM of (60, 20, 90) = 180

A and B complete the work in a day = 180/60 = 3 units

B and C complete the work in a day = 180/20 = 9 units

B alone complete the work in a day = 180/90 = 2 units

A alone complete the work in a day = 3 – 2 = 1 unit

C alone complete the work in a day = 9 – 2 – 7 units

Required time = 180/8 = 22.5 days

35) Answer: A

Speed of boat = x

Speed of stream = y

24/(x – (y + 2) = 6

x – y – 2 = 4

x – y = 6

24/6 + 24/(x + y) = 6

12 = x + y

Speed of boat = (12 + 6)/2 = 9 kmph

36) Answer: D

Time taken by the train with stoppage = 350/35 = 10 hours

Total number of stoppage = 350/70 = 5

Total stoppage time = 5 * 2 = 10 minutes

Time taken by the train without stoppage = 10 hours – 10 minutes

= 9 hours and 50 minutes

37) Answer: A

(x + 40000) * 92/100 * 92/100 – x * 80/100 * 80/100 = 66800

8464x + 338560000 – 6400x = 668000000

x = 160000

B = 200000

38) Answer: A

C empty whole tank in 2 * 8 = 16 hours

1/8 + 1/x – 1/16 = 1/9.6

1/x = 1/9.6 - 1/16

1/x = 1/24

39) Answer: B

Required probability=$5C_1$*$6C_1$/$15C_2$

=5*6/(15*7)

=2/7

40) Answer: B

CP = x

MP = x * 150/100 = 3x/2

SP = 3x/2 * 80/100 * 85/100

= 51x/50

Required percentage = ([51x/50] – x)/x * 100

= 1/50 * 100 = 2%

Quantitative Aptitude

Directions (01–05): Read the following information carefully and answer the questions based on it.

There are two companies A and B. Each company has three departments – HR, Marketing (MK) and Finance (FN).

• Employees in MK of company A (2016) were 2(a + c), which is 6 more than employees in HR of company B (2016), which in turn 28% less than employees in MK of company B (2016).

• Employees in HR of company A (2017) is 24 more than that of employees in FN of the same company in the same year. Employees in MK of company A (2017) were (3c – a/5), while employees in FN of company A (2017) were 2(a + 1).

• Employees in FN of company B (2016) is 50% more than employees in HR of the same company in the same year, while the difference between employees in FN of company A (2016) and B (2016) is same as the number of employees in FN of company A (2017)

• a, b, c are positive integers. Where 'a' is a prime number more than 3, while 'b' is an odd composite number more than 4. The Sum of a and b is less than 20, and c is 50% of the sum of a and b.

• In company A (2016), the number of employees in finance is less than employees in

HR department in the same year and same company.

1) Find the minimum possible number of employees in company A in 2016. [2 Marks]
a) 44
b) 54
c) 55
d) 103
e) None of these

2) Find the total number of employees in company B in 2016. [1 mark]
a) 80
b) 68
c) 72
d) 70
e) None of these

3) If the number of employees in FN of company A in 2016 is more than 15, then find the minimum possible difference between the number of employees in company A in 2016 and 2017. [2 marks]
a) 35
b) 13
c) 32
d) 17
e) None of these

4) Which of the following can be the maximum possible sum of the number of employees in 2016 in both companies together? [2 marks]

a) 172

b) 178

c) 168

d) 192

e) (b) or (d)

5) Find the minimum possible difference between the number of employees in FN of companies A and B in 2016. [1 mark]

a) 16

b) 12

c) 10

d) 9

e) None of these

Directions (06–10): Read the following information carefully and answer the questions based on it.

An adhesive manufacturing company formed adhesives by mixing five chemicals – C1, C2, C3, C4, and C5 in different proportions. Chart given below shows the cost price per liter of these five chemicals.
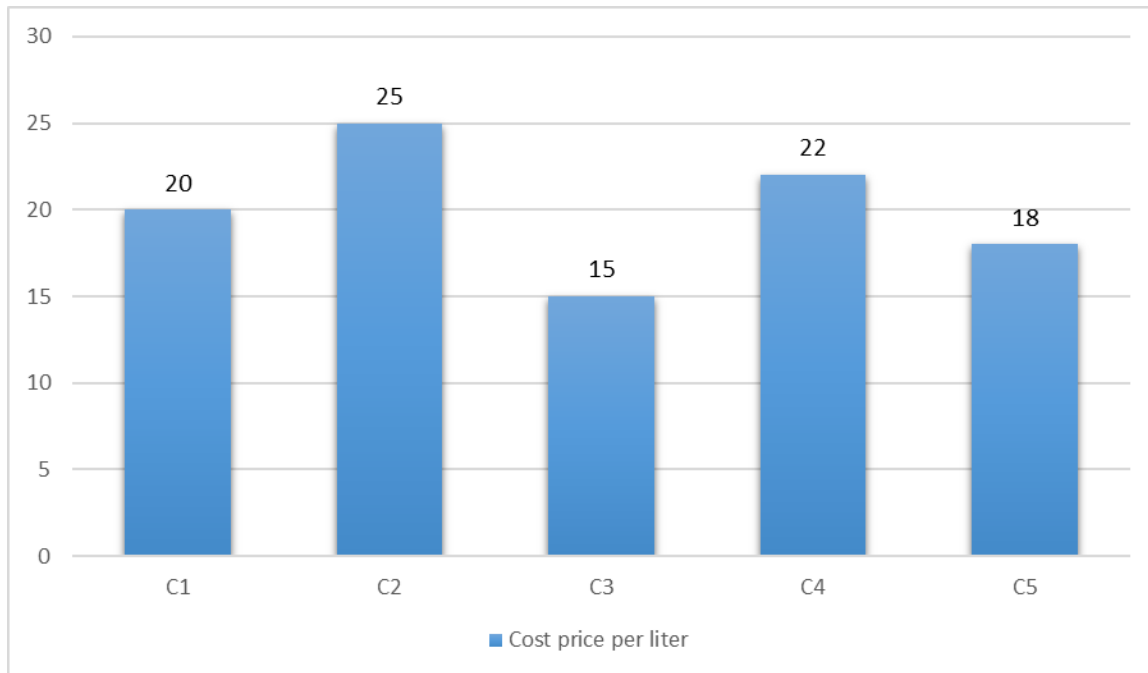
• C4 is formed by mixing C1 and C2 in equal proportion, while C5 is formed by mixing C1 and C3 in equal proportion.

• Adhesive 1 (AD1) formed by mixing C2 and C3 in 30% and 70% proportion respectively, while AD2 formed by mixing C4 and C5 in equal proportions.

• Adhesive 3 (AD3) formed by mixing C3 and C4 in equal proportion, while AD 4 formed by mixing C1 and C5 in 2:1.

6) Which of the following can be the possible cost per liter of Adhesive 2 (AD 2)? [2 marks]

I. Rs. 20

II. Rs. 19.25

III. Rs. 20.25

IV. Rs. 19.75

a) I, II, III only

b) I and IV only

c) II, III, and IV only

d) I, III, and IV only

e) None of these

7) Find the cost price per liter of Adhesive AD4, if the company makes a maximum profit on selling AD4. [2 marks]

a) Rs. 19.33

b) Rs. 19.17

c) Rs. 19.25

d) Rs. 19.75

e) None of these

8) Find cost price per liter of Adhesive 1 (AD1). [1 mark]

a) Rs. 19

b) Rs. 18

c) Rs. 18.75

d) Rs. 19.25

e) None of these

9) Adhesive AD3 can be formed by mixing _____. [2 marks]

a) Adhesive A1 and C1 in the ratio of 7:5 respectively

b) Adhesive A1 and C1 in the ratio of 3:1 respectively

c) C2 and C5 in the ratio of 1:1

d) C1, C2 and C3 in the ratio of 1:1:2 respectively

e) C1, C2 and C3 in the ratio of 3:2:1 respectively

10) If C6 is formed by mixing C1 and C3 in equal proportion and Adhesive 5 (AD5) is formed by mixing C6 and C2 in equal proportion, then find the cost price per liter of Adhesive 5?

a) Rs.18.25

b) Rs.19.25

c) Rs.20.25

d) Rs.21.25

e) Rs.22.25

Answer Key with Explanation

Directions (01–05):

First, we need to find the value of a, b, c

The value of a is a prime number more than 3.

Value of b is an odd composite number of more than 4.

(a + b) < 20, which means both, are less than 20

Value of b = 9, 15

Value of a = 5, 7, 11

If we add 15 to any value of 'a' we get a sum of more than 20 or 20. So this is for sure value of b = 9

Value of a = 5 or 7

Also,

Employees in MK of company A (2017) were (3c – a/5).

Value of a, must be divisible by 5.

So, value of a = 5

Value of c = (9 + 5)/2 = 7

Employees in MK of company A (2016) were 2(a + c), which is 6 more than employees in HR of company B (2016), which in turn 28% less than employees in MK of company B (2016).

Employees in MK of company A (2016) = 2 x (5 + 7) = 24

Employees in HR of company B (2016) = 24 – 6 = 18

Employees in MK of company B (2016) = 18/72 x 100 = 25

Employees in FN of company A (2017) = 2(a + 1) = 2 x (5 + 1) = 12

Employees in HR of company A (2017) is 24 more than that of employees in the FN of the same company in the same year.

Employees in HR of company A (2017) = 24 + 12 = 36

Employees in MK of company A (2017) = (3c – a/5) = (3 x 7 – 5/5) = 20

Employees in FN of company B (2016) are 50% more than employees in HR of the same company in the same year.

Employees in FN of company B (2016) = 18 x 1.5 = 27

Difference between employees in FN of company A (2016) and B (2016) is the same as the number of employees in FN of company A (2017).

So, number of employees in FN of company A (2016) = (27 – 12) or 27 + 12 = 39 or 15

Company (year)	HR	MK	FN	Total
A (2016)	-	24	15 or 39	-
A (2017)	36	20	12	68
B (2016)	18	25	27	70

1) Answer: C

According to the question,

We need to find the minimum possible number of employees of company A in 2016.

Numbers of employees in MK of company A in 2016 = 24

Minimum numbers of employees in FN of company A in 2016 = 15

Minimum numbers of employees in HR of company A in 2016 = 15 + 1 = 16

Required number of employees = 15 + 16 + 24 = 55

Hence answer is option C

2) Answer: D

Required number of employees = 70

Hence answer is option D

3) Answer: A

The number of employees in FN of company A in 2016 is more than 15

So, the Number of employees in FN of company A in 2016 = 39

We need the minimum possible difference.

So, employees in HR of company A in 2016 = 39 + 1 = 40

Required difference = (40 + 24 + 39) – 68 = 35

Hence answer is option A

4) Answer: E

Number of employees in company B in 2016 = 70

Numbers of employees in company A in (MK + FN) in 2016 = 24 + 39 = 63

Minimum number of employees in company A in HR = 40

So, sum ≥ 70 + 63 + 40 ≥ 173

Hence answer is option E

5) Answer: B

Number of employees in FN of company A in 2016= 39 or 15

Number of employees in FN of company B in 2016 = 27

Required minimum difference = 27 – 15 = 39 – 27 = 12

Hence answer is option B

Directions (06–10):

Cost per liter of C1 = Rs. 20

Cost per liter of C2 = Rs. 25

Cost per liter of C3 = Rs. 15

Cot per liter of C4 = Rs. 22

C4 also be formed by mixing C1 and C2 in equal proportion

So, Cost per liter of C4 = 1/2 x 20 + 1/2 x 25 = Rs. 22.50

Cost per liter of C5 = Rs. 18

C5 also formed by mixing C1 and C3 in equal proportion

Cost per liter of C5 = 1/2 x 20 + 1/2 x 15 = Rs. 17.5

6) Answer: D

According to Question,

AD2 formed by mixing C4 and C5 in equal proportions.

Cost per liter of C4 = Rs. 22 and Rs. 22.5

Cost per liter of C5 = Rs. 18 and Rs. 17.5

Possible cost per liter of AD2

= 1/2 x 22 + 1/2 x 18 = Rs. 20

= 1/2 x 22 + 1/2 x 17.5 = Rs. 19.75

= 1/2 x 22.5+ 1/2 x 18 = Rs. 20.25

= 1/2 x 22.5 + 1/2 x 17.5 = Rs. 20

Only I, III, IV follows

Hence answer is option D

7) Answer: B

If the company makes Maximum profit, then cost price should be minimum to earn maximum profit

AD4 is formed by mixing C1 and C5 in a 2:1 ratio.

Cost price per liter of C1 = Rs. 20

Cost price per liter of C5 = Rs. 18 and Rs. 17.5

Required minimum cost = 2/3 x 20 + 1/3 x 17.5 = Rs. 19.17/liter

Hence answer is option B

8) Answer: B

Adhesive 1 (AD1) is formed by mixing C2 and C3 in 30% and 70% proportion respectively.

Required cost price per liter = 3/10 x 25 + 7/10 x 15 = Rs. 18/liter

Hence answer is option B

9) Answer: D

AD3 can be formed by forming C3 and C4 in equal proportion.

So, a liter of AD3 contains a/2 liters of each of C3 and C4

C4 is formed by mixing equal proportions of C1 and C2 in equal proportions.

So, a/2 liters of C4 contains a/4 liters of each C1 and C2.

So AD3 = a/4 (C1) + a/4 (C2) + a/2 (C3)

C1: C2: C3 = a/4: a/4: a/2 = 1:1:2

Hence answer is option D

10) Answer: D

Cost per liter of C6 = 20 + 15/2 = Rs.17.5

Cost per liter of C2 = Rs.25

Cost price of AD5 = 17.5 + 25/2 = Rs.21.25

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English Language

Directions (1-8): A passage has been given below. Read it carefully and answer the questions given below the passage. Some of the words have been highlighted in the passage that will help you locate them find the appropriate answers according to the questions asked.

Heralding a new frontier in India's vaccination programme, the apex drug regulator has approved two more vaccines under emergency use authorization (EUA), and an antiviral drug. Corbevax, by Biological-E, is a protein sub-unit vaccine as is Covovax, to be made by the Serum Institute of India. Both, however, differ in their manufacturing process. Covovax has already been approved by WHO under its Emergency Use Listing and will be available globally as part of the COVAX initiative to ensure that at least 40% of the world is vaccinated on priority. Molnupiravir, which was approved this month by the U.S. Food and Drug Administration, on the heels of Paxlovid by Pfizer Inc., is said to be a promising drug for those with mild and moderate disease and easily administered as a pill — its key selling point. Thirteen companies in India are set to make this drug. It has been approved for use under EUA for treating adults with COVID-19 "who have high risk of progression to disease". Having more vaccines in the arsenal bodes well because of the uncertainties that the pandemic brings about. As of today, 90% of India's adults have been inoculated with one dose and 60% with both doses.

The experience with the new variant Omicron (a)/ is that it is so infectious, it does not (b)/ discriminate among the vaccinated and the unvaccinated, (c)/though severe disease and death (d)/ is disproportionately among the later (e). Here too, those who are above 40 years continue to be the most vulnerable. Despite three vaccines being available, India has overwhelmingly been reliant on Covishield and that is a matter of concern as a new chapter in the vaccination programme unfolds. The new directives say that "precaution doses", which are third doses of the vaccines an individual has already been **inculpated** with, will be available for health-care and frontline workers and those above 60 with comorbidities. The 15-17 years age group will get only Covaxin from January 3. That several Indians have been exposed to a live infection in the second wave only improves the odds of protection. However, the only study on mixing Covaxin and Covishield — that resulted from a mix-up in Uttar Pradesh — showed that antibody levels were higher than two doses of either vaccine. A combination of Novavax and AstraZeneca (Covishield) was also effective in boosting antibodies, according to the COV-BOOST study in the United Kingdom. India's top medical institutions must immediately test the **feasibility** of mixing all available vaccines so that these may be made quickly available if needed giving recipients the option of an informed choice. The second wave revealed a

treatment fiasco with Remdesivir — sans any therapeutic merit — that saw irrational demand and black marketing. While molnupiravir has many more manufacturers, it is important to ensure against hoarding or indiscriminate use given its potential side effects.

1. A sentence has been given highlighted in the passage. Find the erroneous part and mark the same as your answer.

The experience with the new variant Omicron (a)/ is that it is so infectious, it does not (b)/ discriminate among the vaccinated and the unvaccinated, (c)/though severe disease and death (d)/ is disproportionately among the later (e).

A. The experience with the new variant Omicron

B. is that it is so infectious, it does not

C. discriminate among the vaccinated and the unvaccinated,

D. though severe disease and death

E. is disproportionately among the later

2. Which of the following drug/s has/have been discussed, that thirteen companies in India are ready to make, according to the passage?

I. Remdesivir

II. Molnupiravir

III. Corbevax

A. Only I

B. Only II

C. Only III

D. Both I & II

E. Both II & III

3. Which of the following is true, according to the passage?

A. As per the survey, 90% of India's adults have been inoculated with both doses.

B. Covishield was effective in boosting antibodies, according to the COV-BOOST study in the United Kingdom.

C. Third dose – 'precaution dose' will be available for health-care and frontline workers and those above 60 with comorbidities.

D. Both B & C

E. All A, B & C

4. Find the correct replacement for the word 'inculpated' given in the passage.

A. emancipated

B. ejected

C. inoculated

D. incriminated

E. no replacement required

5. Which of the following statements is incorrect, according to the passage?

I. The study on mixing Covaxin and Covishield showed the antibody levels lower than two doses of either vaccine.

II. Only Covaxin will be administered to the 15-17 years age group from January 3.

III. Corbevax is a protein sub-unit vaccine as is Covovax, to be made by the Bharat Biotech.

A. Only I

B. Only III

C. Both II & III

D. Both I & III

E. All I, II & III

6. Which of the following vaccines have been discussed in the passage above?

I. Covaxin

II. Moderna

III. Corbevax

IV. Covovax

A. Both I & IV

B. I, II & IV

C. II, III & IV

D. I, II, III & IV

E. I, III & IV

7. Which of the following is the most similar in meaning to the word 'feasibility', as given in the passage?

A. incredible

B. practicability

C. doubtfulness

D. antipathy

E. All of the above

8. Which of the following statements is true about Remdesivir, as per the passage given above?

A. There was a time during the second wave of covid-19, where there was an unusual demand for Remdesivir that accounted for black marketing.

B. It was suggested to mix Covaxin and Remdesivir and inoculate people and that resulted into higher antidotes than that of Covishield.

C. Remdesivir has already been approved by the WHO under its Emergency Use Listing, also, it will be available as part of the COVAX initiative to ensure that at least 40% of the world is vaccinated.

D. Both A & C

E. All are true

Directions (9-16): A passage has been given below. Read it carefully and answer the questions given below the passage. Some of the words have been highlighted in the passage that will help you locate them to find the appropriate answer according to the questions asked.

The Delhi Government has notified a yellow alert in the state following two consecutive days of the Covid-19 positivity rate being over 0.5%. With this, several curbs have been put into place, including night curfew, closure of educational institutions, half seating capacity in public transport, etc. As per the state government protocol, if the positivity rate continues to rise, it might notify the amber, orange and red alerts, enforcing incremental curbs with each level, ____ (A) ____ in most economic activities coming to a standstill. However, while having plans ready for the third wave of Covid-19 is good, the state government — and governments across the country — must adapt and change plans with the

changing situation, for the sake of the common good.

The nation suffered much — the poorest being the worst-hit — when a very strict lockdown was imposed in March last year. The effect on the economy and marginal workers was devastating, and the photographs of migrant workers travelling homeward on foot, in cement-mixers, or being **mowed down** on rail tracks, shook the soul of the nation. When the 21-day countrywide lockdown began on March 24, 2020, the Prime Minister had said that the 'only way to break the chain of infection is staying indoors.' Another objective was to set up health infrastructure as fast as possible to deal with the pandemic. However, as we have seen during the last 21 months, these objectives were not realized: the chain of infection wasn't broken, and the medical infrastructure broke into pieces when the second wave struck — a year after the first lockdown — April onward this year.

Cases of the Omicron variant are rising and the authorities must monitor it closely, but as of now it is clear that this variant is less dangerous — if more contagious — than its predecessors. While countries with high vaccination figures, too, are seeing a resurgence of the pandemic, vaccination has clearly led to lesser hospitalization. Indian authorities must, thus, banish vaccine hesitancy — as Punjab is attempting by disallowing unvaccinated persons from visiting public places. They must, too, prioritise vaccination of young adults and start

administrating booster shots to the fully vaccinated. For this, **indigenous** production must be boosted and vaccines must be imported, irrespective of the cost.

9. Which of the following words can fill the blank marked (A)?
A. concluded
B. culminating
C. termination
D. bearing
E. originating

10. Which of the following measures was suggested by PM Modi, to break the chain of Coronavirus?
A. half the seating capacity at public places and transports
B. disallowing unvaccinated persons from visiting public places
C. getting fully vaccinated against covid-19
D. staying indoors
E. All of the above

11. According to the passage, which of the statements are true?
A. The poor suffered the most, when a strict lockdown was imposed for the first time in March last year.
B. Indian authorities must prioritize vaccination of young adults.
C. Indian authorities should start administrating booster shots to the fully vaccinated.

D. Both B & C

E. All A, B & C

12. Which of the following describes 'vaccine hesitancy' correctly, according to the passage?

A. It is described as fear of getting infected by Covid after getting vaccinated.

B. It is described as boosting the morale of people to get vaccines and lessen the effect of coronavirus.

C. It is delay in getting vaccines or refusing to get vaccines despite the availability of vaccines.

D. All of the above

E. None of the above

13. Which of the curbs have been put in by the Delhi Government, because of the increasing positivity rates in the two consecutive days?

I. Setting up health infrastructure

II. Half seating capacity in public transport

III. Closure of educational institutions

IV. Night curfews

A. II & IV

B. II, III & IV

C. I, II, IV

D. All I, II, III & IV

E. I, II & III

14. Find the statements that are false, according to the passage.

I. Authorities are required to monitor closely as cases of Omicron Variant are constant.

II. It has been 21 months since the outbreak of coronavirus and the measures that had been taken were not capable of breaking the chain of infections.

III. In countries with higher vaccination, vaccination has clearly led to lesser hospitalization.

A. Only III

B. Only I

C. Only II

D. Both I & III

E. All I, II & III

15. Find the meaning of the phrasal verb 'mowed down'.

A. to place a thing on a surface like a table

B. to go to a lower level

C. to kill or knock down in a sudden and violent way

D. to stop working or functioning

E. None of these

16. Find the opposite meaning to the word 'indigenous.'

A. aboriginal

B. native

C. regional

D. expatriate

E. rapacious

Directions (17-24): A passage has been given below. Read the same carefully and answer the questions given below the passage. Some of the words have been highlighted in the passage that

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will help you locate them to find the appropriate answer according to the questions asked.

Uttar Pradesh's Hall of shame continues to expand, unrelentingly displaying vicious incidents against girls, laden with casteist or communal overtones. While 2021 began with the shameful murders of two Dalit girls in an Unnao field in February, it is ending with another dark spot on the state's **pockmarked** law and order canvas: the thrashing of a Dalit girl in an Amethi village, ostensibly for a mobile phone theft, on December 29. Going by Opposition leader Priyanka Vadra's statement to CM Yogi Adityanath as she demanded justice for the poor girl that 'on an average, 34 crime incidents against Dalits take place every day under your rule and 135 against women, yet your law-and-order machinery is sleeping', more brutalities may have been unleashed in the last three days of 2021. The shockers fly in the face of Yogi's tall claims of having tackled the law-and-order problem head on with the recruitment of 1.5 lakh more cops, spread across districts to contain crime.

Each day weighs disturbingly heavy as every other corner is a potential spot of doom for unsuspecting girls going about their daily chores. Among those falling prey to trigger-happy goons ready to wield the gun and take the law into their hands at the slightest pretext are girls going out to study with the aim of ___ (A) ___ their parents' lives. With their 16-year-old girl having been murdered on her way to a coaching class in Bulandshahr, a Dalit family's hopes lie shattered.

Earlier, July saw the barbaric beating to death, allegedly by the grandfather and uncles of a 17-year-old girl, as she had chosen to wear jeans in Deoria district.

While the Amethi case has come into the limelight as *the viral video of the incident became fodder for the Opposition to take on the authorities in the poll-bound state*, most monstrosities perpetrated go unreported and unnoticed. The **abysmally** low rate of deterring punishment meted out to the guilty only perpetuates the culture of the rule of the might rather than that of the rule of law. The system has failed to ensure a safe environment for the girls.

17. Find the same meaning to the word 'abysmally' as given in the passage.

A. shrouded

B. dreadfully

C. congruously

D. decorously

E. evidently

18. Find the opposite meaning to the word 'pockmarked' as given in the passage.

A. theft

B. deformity

C. embellishment

D. glitch

E. distortion

19. Find the suitable word that can fill the blank marked as (A).

A. scooting

B. witting

C. defaming

D. meliorate

E. bettering

20. According to the passage, which of the following statements is/are true?

I. Opposition leader Priyanka Gandhi asked CM Yogi for justice for the girls saying that approximately 34 crime incidents against Dalits take place every day under the latter's rule and 135 against women.

II. Girls going out for their daily chores feel they are secured as they are connected with their parents by phones.

III. 2021 began with the heinous murders of two Dalit girls in an Unnao field in February.

A. Only I

B. Both I & III

C. Both II & III

D. Only III

E. All I, II & III

21. According to the passage, which of the following statements are false?

I. Yogi's Government states that it has tackled the law-and-order problem head on with the recruitment of 1.5 lakh more cops who are deployed in the districts of the state.

II. Most of the crimes committed against girls go unreported and unnoticed.

III. The rate of punishment administered to the guilty shows the culture of the rule of the law rather than that of the rule of power.

A. Only I

B. Both I & III

C. Both II & III

D. Only III

E. All I, II & III

22. What does the statement given in italics in the passage imply?

"The viral video of the incident became fodder for the Opposition to take on the authorities in the poll-bound state".

A. The viral video of the incident became a problem for the opposition party that they might get triggered by the authorities of the state.

B. The opposition Party became too tensed for the family of the girl with whom the video was related and thought of addressing the problem to the state authorities.

C. The viral video of the incident came as a meal for the opposition to mock the safety measures taken by the state authorities.

D. The viral video of the incident is like an opportunity for the opposition to form a government in the upcoming elections by raising the issue and promising to take actions against the criminals.

E. All of the above

23. Which cities/villages/districts are given in the passage, where the given incidents against the girls took place?

I. Deoria

II. Unnao

III. Bulandshahr

IV. Amethi

A. I, II & IV

B. II, III & IV

C. I, II, III & IV

D. I, II & III

E. II & IV

24. What can be concluded from the given passage?

A. The girls are not safe in the state of UP, as each and every day many girls are becoming the victims of crime against them and negligible actions are being taken against the guilty.

B. Many laws have been introduced by the government in order to protect girls.

C. Many cases that take place in the state remain unreported because of the fear of insult of the family of the victim.

D. The passage shows that there's still rule of law rather than powerful people.

E. All of the above

Directions (25-32): A passage has been given below. Read it carefully and answer the questions given below the passage. Some of the words have been highlighted in the passage that will help you locate them to find the appropriate answer according to the questions asked.

An unwillingness to allow meaningful debate and invite wider consultation can undo even the progressive aspects of problematic legislation. Ignoring protests, the Union government has managed to push through a Bill in the Parliament to link the electoral roll data with the Aadhaar ecosystem. On the face of it, the Bill's objective — to purify the rolls and weed out bogus voters — may appear laudable, and the seeding of Aadhaar data with voter identity particulars may seem to be a good way of achieving it. Indeed, this can also allow for remote voting, a measure that could help migrant voters. The four qualifying dates for revision of rolls will help in faster enrolment of those who turn 18. However, other aspects hold grave implications for electoral democracy. *The Opposition underscored the (a) possibility disenfranchisement of legitimate voters (b) misused or unable to submit Aadhaar details, the possible violation of privacy, and the (c) unwilling that demographic details may be (d) possible for profiling of voters.* Each is a valid concern that ought to be considered by a parliamentary committee. Union Law Minister Kiren Rijiju has said the proposal has been unanimously approved by the Parliamentary Committee on Law and Justice. But it is not clear if the specifics of the Bill had been discussed widely and public opinion sought.

There are indeed complaints that some electors may be registered in more than one constituency and that non-citizens have been enrolled, but these can be addressed by other identification processes. In fact, the Aadhaar database may be irrelevant to verify voter identity because it is an identifier of residents and not citizens. And the complaints of wrongful enrolment have come up even against the unique identity number allotted to more than 90% of the population. Mr. Rijiju is confident that the Election Laws (Amendment) Bill satisfies the tests laid down by the Supreme Court — a permissible law, a **legitimate** state interest and proportionality. However, this has to be rigorously examined. Even though the Aadhaar requirement is said to be voluntary, in practice it can be made mandatory. The Bill says the election registration officer may require the submission of the Aadhaar number both for new enrolments and those already enrolled. The choice not to submit is linked to a "sufficient cause", which will be separately prescribed. Whether the few permissible reasons not to intimate one's Aadhaar number include an objection on principle is unknown. If an individual's refusal to submit the detail is deemed unacceptable, it may result in loss of franchise. Therefore, the measure may fail the test of proportionality. If the Government really has no **ulterior** motive in the form of triggering mass deletions from the electoral rolls, it must invite public opinion and allow deeper parliamentary scrutiny before implementing the new provisions

that now have the approval of both Houses of Parliament.

25. A sentence has been given in the passage with some words highlighted. These words may or may not be in their correct order. Rearrange the words and mark the option with correct order as your answer.

*The Opposition underscored the **(a) possibility** disenfranchisement of legitimate voters **(b) misused** or unable to submit Aadhaar details, the possible violation of privacy, and the **(c) unwilling** that demographic details may be **(d) possible** for profiling of voters.*

A. dcba
B. dabc
C. dcab
D. dacb
E. no rearrangement required

26. Find the meaning opposite to the word 'legitimate' from the passage.

A. whimsical
B. incite
C. statutory
D. dominion
E. fraudulent

27. Find the statements that are correct, according to the passage.

I. Government should not invite public opinion and allow deeper parliamentary scrutiny before implementing the new provisions.

II. The Aadhaar database may be irrelevant to verify voter identity.

III. The Election Laws Amendment Bill says the election registration officer may require the submission of the Aadhaar number both for new enrolments and those already enrolled.

A. Only III

B. Both II & III

C. Only II

D. Both I & II

E. All I, II & III

28. Find the meaning of the term 'ulterior motive' as given in the passage.

A. a secret reason

B. meaninglessness

C. a selfless motive

D. a selfish motive

E. None of the above

29. Which of the following statements is/are incorrect, according to the passage?

I. Mr. Rijiju is confident that the Election Laws Amendment Bill satisfies the tests laid down by the Delhi High Court.

II. There are complaints that some electors may be registered in more than one constituency and that non-citizens have been enrolled, but these can be addressed by other identification processes.

III. Linking Electoral data rolls with Aadhaar will not allow for remote voting, a measure that could help migrant voters.

A. Only III

B. Only I

C. Only II

D. Both I & III

E. All I, II & III

30. Mr. Kiren Rijiju has been called as which minister, in the passage?

A. Minister of Law & Justice

B. Minister of Youth affairs and sports

C. Minister of Economic affairs

D. Minister of Electoral Commission

E. Minister of Social Development

31. What is the objective of the Election Laws (Amendment) Bill, which has been presented in the Parliament?

A. It will help the current government in getting more votes than the opposition parties.

B. This will help invite public opinion and allow deeper parliamentary scrutiny.

C. The step has been taken to relieve the electoral rolls and extract fake voters from the list.

D. The objective is to get exact information about the population of the country and non-residents of India.

E. None of the above

32. What can be inferred from the passage above?

A. The Union government has fully ignored the complaints of citizens and managed to push

through a Bill in Parliament to link electoral roll data with the Aadhaar ecosystem.

B. The Government presented the Election Laws Amendment bill with the objective of removing fake voters and bringing transparency in election process and if there's no secret reason for this then the government should invite public opinion before implementation of new laws.

C. The Bill will allow people over 14 years of age to vote in state assembly elections and this will help to know who they want to be the leader of their constituency.

D. Even though the Aadhaar requirement is said to be voluntary, in practice it can be made mandatory.

E. All of these

Answer Key with Explanation

1.Answer: E; is disproportionately among the later

'Later' will be replaced by 'latter'. 'Latter' means referring to the second of two persons or things mentioned previously and here, it has been used for the unvaccinated people.

The experience with the new variant Omicron is that it is so infectious, it does not discriminate among the vaccinated and the unvaccinated, though severe disease and death is disproportionately among the latter.

2.Answer: B; Only II

As per the 1st paragraph, it can be identified that the correct answer is 'Molnupiravir'.

Molnupiravir, which was approved this month by the U.S. Food and Drug Administration, on the heels of Paxlovid by Pfizer Inc., is said to be a promising drug for those with mild and moderate disease and easily administered as a pill — its key selling point. Thirteen companies in India are set to make this drug.

3.Answer: D; Both B & C

We can identify the correct statements by reading the second paragraph of the passage. Statement A is incorrect as we can see the last line of the 1st paragraph and identify that '90% of India's adults have been inoculated with one dose'.

Statement B – A combination of Novavax and AstraZeneca (Covishield) was also effective in boosting antibodies, according to the COV-BOOST study in the United Kingdom.

Statement C – The new directives say that "precaution doses", which are third doses of the vaccines an individual has already been inculpated with, will be available for health-care and frontline workers and those above 60 with comorbidities.

4.Answer: C; inoculated

The context says that the 'precaution dose' has been administered to an individual and it will be

available for health-care and frontline workers and those above 60 with comorbidities. For vaccination, 'inoculated' is the correct word.

Inculpate – incriminate, accuse

Emancipate – discharge, release, liberate

Eject – cast out, remove

5.Answer: D; Both I & III

We can identify the incorrect statements by reading the passage carefully. Statement II is correct and we can find it after reading the 2nd paragraph. "The 15-17 years age group will get only Covaxin from January 3. That several Indians have been exposed to a live infection in the second wave that only improves the odds of protection."

Statement I can be identified that it is incorrect, from the 2nd paragraph.

Statement I – The only study on mixing Covaxin and Covishield — that resulted from a mix-up in Uttar Pradesh — showed that antibody levels were higher than two doses of either vaccine.

Statement III – Corbevax, by Biological-E, is a protein sub-unit vaccine as is Covovax, to be made by the Serum Institute of India.

6.Answer: E; I, III & IV

'Moderna' has not been mentioned in the passage above. So, the correct answer is option E.

7.Answer: B; practicability

Feasibility – practicability, possibility

Opp. - doubtfulness

Incredible – fantastic, unbelievable/ doubtful, unlikely

Antipathy – hostility, enmity, animosity

8.Answer: A; There was a time during the second wave of covid-19, where there was unusual demand for Remdesivir and accounted to black marketing.

It is clearly stated in the last few lines of the paragraph - The second wave revealed a treatment fiasco with Remdesivir — sans any therapeutic merit — that saw irrational demand and black marketing.

Statement C is false. As per the 1st paragraph, it is about 'Covovax'. "Covovax has already been approved by the WHO under its Emergency Use Listing and will be available globally as part of the COVAX initiative to ensure that at least 40% of the world is vaccinated on priority."

9.Answer: B; culminating

The context is about the increment in positivity rates of covid-19 cases. As per the passage, the Government has said that if the positivity rate continues to increase, it will result in a halt of the economic activities. With this, options D & E are eliminated. Option A & C are incorrect grammatically. We need a present participle after the comma (,); hence, only option B satisfies the context and hence will be the correct answer.

Culminate – conclude, terminate, and wrap up

Bear – originate, begin, commence

10.Answer: D; staying indoors

We can get the answer by reading the 2nd paragraph. It has been mentioned that – When the 21-day countrywide lockdown began on March 24, 2020, the Prime Minister had said that the 'only way to break the chain of infection is staying indoors.'

11.Answer: E; All A, B & C

After reading the initial lines of the 2nd paragraph, we can find that statement A is correct- "The nation suffered much — the poorest being the worst-hit — when a very strict lockdown was imposed in March last year."
Similarly, statements B & C are correct according to the last paragraph of the passage - Indian authorities must, thus, banish vaccine hesitancy — as Punjab is attempting by disallowing unvaccinated persons from visiting public places. They must, too, prioritize vaccination of young adults and start administrating booster shots to the fully vaccinated.

12.Answer: C; It is the delay in getting vaccines or refusing to get vaccines despite the availability of vaccines.

"Vaccine hesitancy is a delay in acceptance, or refusal of vaccines despite the availability of vaccine services."

13.Answer: B; II, III & IV

If we read the initial two lines of the 1st paragraph, we can find the correct answer – The Delhi Government has notified a yellow alert in the state following two consecutive days of the Covid-19 positivity rate being over 0.5%. With this, several curbs have been put into place, including night curfew, closure of educational institutions, half seating capacity in public transport, etc.

14.Answer: B; Only I

After reading the passage carefully, we can find that statements II & III are correct. Only statement I is false, as per the information given in the 3rd paragraph of the passage.

15.Answer: C; to kill or knock down in a sudden and violent way

16.Answer: D; expatriate

Indigenous – aboriginal, native, regional
Opp. – expatriate
Rapacious – greedy, mercenary

17.Answer: B; dreadfully

Abysmally – dreadfully, terribly
Opp. – decorously, nicely, congruously
Shrouded – masked, shaded
Apparently – evidently, supposedly

18.Answer: C; embellishment

Pockmarked – defect, deformity, glitch, distortion
Opp. – Adornment, embellishment

19.Answer: E; bettering

The sentence talks about the girls, who are triggered by the goons, when they step out with an intention to improve the lives of their parents. So, we need a gerund here. With this, option D is eliminated. Option A has 'scooting' that means dashing or leaving from somewhere quickly. Option B has 'witting' that means cautioning or heeding. Option C has 'defaming' that means insulting or humiliating someone. All these words don't fit the context and hence option E will be the correct answer.

Bettering – improving, enhancing

20.Answer: B; Both I & III

Statements I & III are true as per the context given in the 1st paragraph.

I – While 2021 began with the shameful murders of two Dalit girls in an Unnao field in February, it is ending with another dark spot on the state's pockmarked law and order canvas.

III – Going by Opposition leader Priyanka Vadra's statement to CM Yogi Adityanath as she demanded justice for the poor girl that 'on an average, 34 crime incidents against Dalits take place every day under your rule and 135 against women, yet your law-and-order machinery is sleeping',

Statement II is incorrect, the correct statement is – Each day weighs disturbingly heavy as every other corner is a potential spot of doom for unsuspecting girls going about their daily chores.

That means, each day is disturbing that everything is a warning of a bad thing to the unaware girls who set out for their daily work.

21.Answer: D; Only III

Statements I & II are correct, only statement III is incorrect. We can identify the incorrect statement from the last paragraph.

Statement III is incorrect as it is given in the last lines of the passage that – The abysmally low rate of deterring punishment meted out to the guilty only perpetuates the culture of the rule of the might rather than that of the rule of law.

22.Answer: D; The viral video of the incident is like a chance for the opposition to form a government in the state in the upcoming elections by raising the issue and promising to take actions against the criminals.

If we read the paragraph (from which the line has been taken) carefully, it indicates that the opposition got a chance to acquire the state authorities. So, the correct answer is option D.

23.Answer: C; I, II, III & IV

All the places have been given in the passage

24.Answer: A; The girls are not safe in the state of UP, as each and every day many girls are becoming the victims of crime against them and negligible actions are being taken against the guilty

25. Answer: C; dcab

The correct order is: possible-unwilling-possibility-misused.

The Opposition underscored the **(a) possible** disenfranchisement of legitimate voters **(b) unwilling** or unable to submit Aadhaar details, the possible violation of privacy, and the **(c) possibility** that demographic details may be **(d) misused** for profiling of voters.

26. Answer: E; fraudulent

Legitimate – legal, statutory

Opp. – illegal, fraudulent

Dominion – regime, reign

Incite – provoke, stimulate

Whimsical – mischievous, excitable

27. Answer: B; Both II & III

After reading the 2ⁿᵈ paragraph, we can easily identify the correct statements. – In fact, the Aadhaar database may be irrelevant to verify voter identity because it is an identifier of residents and not citizens.

The Bill says the election registration officer may require the submission of the Aadhaar number both for new enrolments and those already enrolled.

Statement I is incorrect and we can find this out by reading the last lines of the paragraph.

28. Answer: A; a secret reason

29. Answer: D; Both I & III

After reading the 2ⁿᵈ paragraph, we can identify that statement I is incorrect - Mr. Rijiju is confident that the Election Laws (Amendment) Bill satisfies the tests laid down by the Supreme Court — a permissible law, a **legitimate** state interest and proportionality.

Similarly, Statement III can be identified from the 1ˢᵗ paragraph – Indeed, this can also allow for remote voting, a measure that could help migrant voters.

30. Answer: A; Minister of Law & Justice

It has been clearly mentioned in the 1ˢᵗ paragraph that Mr. Kiren Rijiju is Minister of Law and justice, presently.

Union Law Minister Kiren Rijiju has said the proposal has been unanimously approved by the Parliamentary Committee on Law and Justice.

31. Answer: C; The step has been taken to relieve the electoral rolls and extract fake voters from the list.

On the face of it, the Bill's objective — to purify the rolls and weed out bogus voters — may appear laudable, and the seeding of Aadhaar data with voter identity particulars may seem to be a good way of achieving it.

32. Answer: B; The Government presented the Election Laws Amendment bill with the objective of removing fake voters and bringing transparency in the election process and if there's no secret reason for this then the

government should invite public opinion before implementation of new laws.

After reading the passage carefully, we can make the above inference.

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English Language

Directions (1-8): Read the given passage carefully and answer the questions that follow:

The grave water situation in Cape Town in South Africa is a wake-up call to everybody across the globe — from policymakers to the common man. A similar crisis is looming large in other cities in the world as people continue to be **cautious** in their use of water.

The situation is so worrisome that 12 world leaders — 11 heads of state and a special adviser of a high-level panel on water — wrote an open letter to global leaders a week ago warning that the world is facing a water crisis and issued a New Agenda for Water Action. Observing that we need to make "every drop count", they called for a new approach: rethinking how we understand, value and manage water as a precious resource, and catalysing change and building partnerships to achieve the water-related goals of the 2030 Agenda for Sustainable Development.

The panel mentioned the need to put in place policies that will allow for at least a doubling of water infrastructure investment in the next five years. It called for governments, communities, the private sector, and researchers to **collaborate**.

In India, a growing population, lack of adequate planning, crumbling infrastructure, indiscriminate drilling of borewells, large-scale consumption of water, and a false sense of entitlement in using water carelessly are causing water shortages.

Unless *(A)minimise* measures are taken to *(B)drastic* water usage, the day may not be far off when authorities will be *(C)forced* to *(D)ration* water supply in cities like Bengaluru, which has been ranked second in the list of 11 global cities which might face the imminent threat of running out of drinking water. Already, water is being supplied on alternate days in certain cities, and for a limited duration in some places.

1. The panel discussed the importance of implementing policies that will produce results in how many years?

a. Five years

b. Four years

c. Eleven years

d. Two years

e. Three years

2. Who wrote an open letter to global leaders?

a. 12 world leaders

b. 11 heads of state

c. a special adviser of a high-level panel on water

d. both A and B

e. All the above

3. Which of the following is/are the methods of new approach to conserve water?

a. achieve the water-related goals of the 2025 Agenda

b. value and manage water as a precious resource

c. build partnerships with developed countries

d. understand the methods of crumbling infrastructure

e. All the above

4. What are the causes of water shortages in India?

a. a growing population

b. crumbling infrastructure

c. indiscriminate drilling of borewells,

d. a false sense of entitlement in using water carelessly

e. All the above

5. Which city ranked second in the list of 11 global cities which might soon face the shortage of drinking water?

a. Hyderabad

b. Bengaluru

c. Delhi

d. Mumbai

e. Chennai

6. What is the **SYNONYM** of the word 'collaborate' used in the given passage?

a. Cooperate

b. Disagree

c. Refuse

d. Condemn

e. None of these

7. In the given sentence, the highlighted word might be used inappropriately. Choose the most suitable word that fits in the given sentence:

A similar crisis is looming large in other cities in the world as people continue to be **cautious** in their use of water.

a. watchful

b. attentive

c. careful

d. reckless

e. None of these

8. Rearrange the highlighted words to make the sentence meaningful:

Unless **(A)minimise** measures are taken to **(B)drastic** water usage, the day may not be far off when authorities will be **(C)forced** to **(D)ration** water supply in cities like Bengaluru.

a. Only A-B

b. Only B-C

c. Only B-D

d. Both C-D and A-B

e. No Improvement

Directions (9-13): In the passage given below there are blanks and they are numbered. Fill with the options given below the passage against each of the respective numbers. Choose the correct option to fill in the blank that can make the paragraph meaningful and complete coherently.

Despite the scale of the shock to the education system, a review of the State governments'

Standard Operating Procedures/guidelines on school re-opening shows that the _____(9) is on health and sanitation measures. There is very little discussion on the practical approaches required to ensure that every child returns to school and to _____ (10) the learning difficulties that children will face.

Across the world, guidance on school re-opening centres around certain principles. The first is a strong focus on _____(11). Special efforts must be made for children from disadvantaged backgrounds, who were disconnected during the pandemic, so that they can return to school in an environment that fosters belonging. The second is effective and regular communication with parents. The third is to support student's socio-emotional development. The fourth is to re-organise the curriculum to _____ (12) core academic skills, focusing on language learning and mathematics, especially in the elementary years. The fifth is to extend learning time and hire additional teachers where needed. The sixth is to enhance training and regular support for teachers. And finally, to secure additional _____(13) to address the crisis.

9.
a. Bonhomie
b. Remote
c. Emphasis
d. Remiss
e. Immune

10.
a. Worrisome
b. Inundate
c. Convene
d. Troubled
e. Address

11.
a. Conviction
b. Perfunctory
c. Clamour
d. Equity
e. Overwhelming

12.
a. Reinforce
b. Legitimate
c. Commit
d. Counter
e. Distress

13.
a. Restoring
b. Funding
c. Aid
d. Compacting
e. Seizing

Directions (14-18): In the questions given below, a statement is divided into 5 parts (A), (B), (C), (D) and (E), with one part containing an error, grammatically or contextually. You are required to choose that part of the sentence which has an error. If all the parts are correct then (E) would be your answer that is "no error".

14. The ceasefire on the line of control is barely holding up (A) /with infiltration from the Pakistani side (B) /adding to the local Kashmiri youth willing to pick up the gun (C) / opening any other half front for the military (D) /No Error (E)

a. A
b. B
c. C
d. D
e. No error

15. India scripted history on Thursday (A)/ with its covid-19 vaccine doses administered crossing the one-billion mark, (B)/ accomplishing in just about nine months (C) / after the vaccine program rollout on January 16 (D) / No error (E)

a. A
b. B
c. C
d. D
e. No error

16. Our vaccine manufacturers (A) /by scaling u to meet the demands (B) /of such a large population(C) /have shown that they are none to second (D) /No error (E).

a. A
b. B
c. C
d. D
e. No error

17. Our youth, social workers, health care workers social and religious leaders (A) / all

deserve credit (B) /for the fact that India face minimal vaccine hesitancy (C) /when compared with even developed nations (D)/No Error (E)

a. A
b. B
c. C
d. D
e. No error

18. We remember (A) /how unpredictable the situation appeared than. (B) / As we were faced (C) /by an unknown and invisible enemy mutating rapidly (D) /No error (E).

a. A
b. B
c. C
d. D
e. No error

Directions (19-23): The following questions consist of a sentence. Four of the words of the sentences are marked in bold, which may or may not be correctly spelt. Option corresponding to mis-spelt word is your answer. If there is no misspelt word in the sentence then choose (d), i.e., 'All are correct' as your answer.

19. Crude bombs were **harled** at two **residences** of ruling BJD MLA Suryamani Baidya in Odisha's Ganjam district and four party **supporters** were injured in the **incidents**, police said.

a. Harled
b. Residences
c. Incidents

d. Supporters

e. All are correct

20. Rajasthan is going through a **complicated** financial situation due to the adverse **circumstences** of COVID-19 and a decline in **revenue** earnings, along with the increasing state share in centrally-sponsored schemes, and non-payment of GST **compensation** by the Centre.

a. Complicated

b. Circumstences

c. Compensation

d. Revenue

e. All are correct

21. The name of East Pakistan will be removed from the caste **certificates** issued to members of the **displaced** Bengali community in Uttarakhand's Udham Singh Nagar district. The **anouncement** was made by the Chief Minister at a meeting with a **delegation** from the Sitarganj constituency.

a. Certificates

b. Displaced

c. Anouncement

d. Delegation

e. All are correct

22. Newly appointed Punjab Congress president Navjot Singh Sidhu was shown black flags by farmers and **contractual** employees during his visit to Moga. The protesters also tried to break

barricades to reach Navjot Singh Sidhu, but were stopped by police **parsonnel** who were **deployed** in large numbers, police said.

a. Contractual

b. Barricades

c. Parsonnel

d. Deployed

e. All are correct

23. Quickining the pace and **coverage** of vaccination and regaining the **momentum** of economic recovery is the current focus area of the Ministry of Home Affairs as far as the Covid **containment** strategy is concerned.

a. Quickining

b. Coverage

c. Momentum

d. Containment

e. All are correct

Directions (24-28): In the following questions, a sentence consists of a blank. Out of given alternatives, choose the most suitable word to fill in the blank. If none of the words fits correctly in the blank, choose 'none of these' as your answer.

24. The film revolves around the story of two friends who are forced to _____ and work together in order to save their families.

a. rebel

b. reconcile

c. absolute

d. thwart

e. None of these

25. When questioned about his acts, the killer showed no _____ for his victims or their grieving families.

a. disregard

b. reluctance

c. retributive

d. empathy

e. None of these

26. The pirates had the _____ to try and steal the presidential yacht.

a. audacity

b. genuine

c. compassion

d. aftermath

e. None of these

27. Once the disrespectful worker was gone, the office was no longer filled with scornful _____.

a. adherence

b. sanctions

c. derision

d. assistance

e. None of these

28. An _____ crowd of protestors appeared in the roadway and became wild and out of control when they were asked to leave.

a. disorderly

b. illuminating

c. enduring

d. unruly

e. None of these

Directions (29-30): Given below is a highlighted word followed by 4 sentences. You need to understand whether the sentences are using the word correctly or not. Mark the incorrect sentence with the incorrect word usage as your answer.

29. Aspersion

A. Even though Sheila is angry at you, I will not cast an aspersion upon your character.

B. I was shocked when he dared to cast aspersion on his wife.

C. We decided to have an aspersion before arriving at a conclusion.

D. Kunal has every right to direct an aspersion at his cheating wife.

a. Only A

b. Only B

c. Only C

d. Only D

e. All are correct

30. Enervate

A. The lecture on calculus was enervating to the new students.

B. If you are idle then it will definitely enervate your progress towards success.

C. The energy drink enervated him to such an extent that he ran faster than the others.

D. The long journey from Kolkata to Bhubaneswar is quite enervating.

a. Only A

b. Only B

c. Only C

d. Only D

e. All are correct

<div align="center">Answer Key with Explanation</div>

1. Answer: A

In the given passage, it is mentioned that "The panel mentioned the need to put in place policies that will allow for at least a doubling of water infrastructure investment in the next **five years**."
Therefore, option A is the correct answer.

2. Answer: E

In the given passage, it is mentioned that "The situation is so worrisome that 12 world leaders — 11 heads of state and a special adviser of a high-level panel on water — wrote an open letter to global leaders a week ago warning that the world is facing a water crisis and issued a New Agenda for Water Action."
Therefore, option E is the correct answer.

3. Answer: B

In the given passage, it is mentioned that "Observing that we need to make "every drop count", they called for a new approach: rethinking how we understand, value and manage water as a precious resource, and catalysing change and building partnerships to achieve the water-related goals of the 2030 Agenda for Sustainable Development."
Therefore, option B is the correct answer.

4. Answer: E

In the given passage, it is mentioned that "In India, a growing population, lack of adequate planning, crumbling infrastructure, indiscriminate drilling of borewells, large-scale consumption of water, and a false sense of entitlement in using water carelessly are causing water shortages".
Therefore, option C is the correct answer.

5. Answer: B

In the given passage, it is mentioned that "the day may not be far off when authorities will be forced to ration water supply in cities like **Bengaluru**, which has been ranked second in the list of 11 global cities which might face the imminent threat of running out of drinking water."
Therefore, option B is the correct answer.

6. Answer: A

The word 'collaborate' means 'work jointly on an activity or project' and the word 'cooperate' means 'work jointly towards the same end'.
Therefore, option A is the correct answer.

7. Answer: D

The given passage is talking about facing water crisis due to various reasons. So, the word

'reckless' which means 'careless' fits correctly in the sentence as it is talking about people carelessly using water.

Therefore, option D is the correct answer.

8. Answer: A

The correct sentence after the rearrangement is:

Unless **(A)drastic** measures are taken to **(B)minimise** water usage, the day may not be far off when authorities will be **(C)forced** to **(D)ration** water supply in cities like Bengaluru,

Drastic: likely to have a strong or far-reaching effect; radical and extreme.

Minimize: reduce (something, especially something undesirable) to the smallest possible amount or degree.

9. Answer: C

"**Emphasis**" will fill in the blank to make the paragraph meaningful and complete coherently.

Bonhomie: cheerful friendliness; geniality.

Remote: having very little connection with or relationship to.

Emphasis: special importance, value, or prominence given to something.

Remiss: lacking care or attention to duty; negligent.

Immune: resistant to a particular infection or toxin owing to the presence of specific antibodies or sensitized white blood cells.

10. Answer: E

"**Address**" will fill in the blank to make the paragraph meaningful and complete coherently.

Worrisome: causing anxiety or concern.

Inundate: overwhelm (someone) with things or people to be dealt with.

Convene: come or bring together for a meeting or activity; assemble.

Troubled: beset by problems or difficulties.

Address: think about and begin to deal with (an issue or problem).

11. Answer: D

"**Equity**" will fill in the blank to make the paragraph meaningful and complete coherently.

Conviction: a formal declaration by the verdict of a jury or the decision of a judge in a court of law that someone is guilty of a criminal offence.

Perfunctory: (of an action) carried out without real interest, feeling, or effort.

Clamour: a loud and confused noise, especially that of people shouting.

Equity: the quality of being fair and impartial.

Overwhelming: very great in amount.

12. Answer: A

"**Reinforce**" will fill in the blank to make the paragraph meaningful and complete coherently.

Reinforce: strengthen or support (an object or substance), especially with additional material.

Legitimate: conforming to the law or to rules.

Commit: perpetrate or carry out (a mistake, crime, or immoral act).

Distress: extreme anxiety, sorrow, or pain.

Counter: a long flat-topped fitment across which business is conducted in a shop or bank or refreshments are served in a cafeteria.

13. Answer: B

"Funding" will fill in the blank to make the paragraph meaningful and complete coherently.

Funding: money provided, especially by an organization or government, for a particular purpose.

Restoring: bring back or re-establish (a previous right, practice, or situation).

Aid: help, typically of a practical nature.

Compacting: exerting force on (something) so that it becomes more dense; compress.

Seizing: a length of cord or rope used for fastening or tying.

14. Answer: D

'Any other' is used in negative sentences but 'another' is not used in negative sentences hence, 'Another' will be used instead of 'any other'. Also, 'Another' means 'one more', an extra thing or person.

15. Answer: C

'The simple past tense' is used to talk about a completed action in a time before now or when past point of time is given. 'Accomplishing' will be replaced by 'accomplished'.

16. Answer: D

The correct phrase is 'second to none' which means 'better than all others of the same kind; Prominent.

17. Answer: D

In the process of comparing two or more things 'to' is used and in the process of comparing two or more people 'with' is used. Here the comparison is between India and the developed nations so 'to' will be used.

18. Answer: B

'Than' is usually associated with comparisons and 'then' is usually associated with time. So here, 'then' will replace 'than'.

19. Answer: A

From the given highlighted words, the spelling of 'harled' is incorrect, instead it should be 'hurled'.

20. Answer: B

From the given highlighted words, the spelling of 'circumstences' is incorrect, instead it should be 'circumstances'.

21. Answer: C

From the given highlighted words, the spelling of 'anouncement' is incorrect, instead it should be 'announcement'.

22. Answer: C

From the given highlighted words, the spelling of 'parsonnel' is incorrect, instead it should be 'personnel'.

23. Answer: A

From the given highlighted words, the spelling of 'Quickining' is incorrect, instead it should be 'Quickening'.

24. Answer: B

As the sentence is talking about working together, the word 'reconcile' fits correctly in the given blank as it means 'restore friendly relations between'.

Therefore, option B is the correct answer.

25. Answer: D

The word 'empathy' which means 'the ability to understand and share the feelings of another' fits correctly in the blank as the sentence is talking about a ruthless killer.

Therefore, option D is the correct answer.

26. Answer: A

As the sentence is talking about pirates stealing a presidential yacht, the word 'audacity' fits correctly in the given blank as it means 'a willingness to take bold risks.'

Therefore, option A is the correct answer.

27. Answer: C

As the sentence is talking about disrespectful mocking, the word 'derision' fits correctly as it means 'contemptuous ridicule or mockery.'

Therefore, option C is the correct answer.

28. Answer: D

As the sentence is talking about an uncontrollable protesting crowd, the word 'unruly' fits correctly in the given blank as it means 'disorderly and disruptive and not amenable to discipline or control'.

Therefore, option D is the correct answer.

29. Answer: C

Solution: Aspersion means an attack on the reputation or integrity of someone or something. In sentence C the word makes no sense and seems out of the context.

Therefore, in the given question the correct answer is option C.

30. Answer: C

Solution: Enervate means (lacking) or drained of energy or vitality. In sentence C it gives just the opposite sense of enervate and hence is incorrect.

Therefore, in the given question the correct answer is option C.

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English Language

SBI CLERK PRELIMS ENGLISH LANGUAGE MEMORY BASED PAPER-2021

Directions (1-7): The passage given below has words that have been highlighted and questions have been framed on them. You have to read the same carefully and answer the questions that follow

Through the last decade, India has been at the forefront of adopting innovative approaches and solutions to boost the prospects of its renewable energy sector. Of all the measures taken, three proved to be game-changers: tariff bundling to make solar an acceptable option for electricity distribution companies (discoms); promoting solar parks to achieve scale and speed of deployment; and instituting payment security mechanisms to de-risk investments in RE projects. More recently, regulators implemented new electricity trading platforms such as the Real Time Market (RTM) to aid grid management. As we prepare for the decade-long marathon, we recommend three critical priorities that must form the core of the next phase of India's energy transition.

First, build a diverse technology mix. In recent years, utility-scale solar PV has emerged as the most preferred technology choice as policymakers targeted cost reduction and economies of scale. However, India also has huge potential to promote alternative technologies and applications such as rooftop and floating solar, decentralised onshore wind, offshore wind, small hydro and biomass power. For perspective, decentralised onshore wind projects of up to 50 MW could tap under utilised state transmission networks in windy states beyond Tamil Nadu and Gujarat, which host almost 50% of the total installed wind power capacity today. Similarly, floating solar has huge potential, exceeding 2,400 GW in the eastern states, which are otherwise not attractive for onshore wind or utility-scale solar. Efficient rooftop solar projects could offer benefits to consumers in the north-east. Diversifying our technology mix would not only offer flexibility and *resilience* to our power system, but also deliver the desired socio-economic benefits by bringing the transition closer to the communities.

Second, support demand creation for renewables. Today, financially stressed electricity distribution companies find it difficult to increase the share of renewables in their portfolios. Only four states met or surpassed their renewable purchase obligation in 2019-20. Adverse policy measures in some states have made it difficult for large consumers to shift to cheaper RE sources. For example, only 12% of the total installed utility-scale solar capacity is under open access today. Therefore, discoms could take advantage of technological and market developments to serve the needs of their high-paying consumers. Further, freeing discoms

from contracts with old and inefficient coal plants could create the headroom required to procure renewable energy and other flexible resources through market platforms. Partially indexed RE tariffs could be another immediate solution to increase the attractiveness of RE for discoms and developers alike.

Third, transform institutions. Meeting the 2030 targets would require us to fast-track project development, improve implementation efficiency, strengthen procurement processes, and enhance transparency on RE resource potential and grid infrastructure. It also calls for creation of mechanisms for a quicker *resolution* to challenges on power purchase contracts, payment delays, and reduction in power generation. To this end, the Solar Energy Corporation of India could be empowered to become the National Renewable Energy Corporation (NREC). NREC could act as the single point entity for renewable energy power producers. NREC would also facilitate improved Centre-state coordination and a diverse RE technology mix. This would help build trust among existing and potential investors.

1) Which of the following measures should be prioritized as per the author in the given passage?

a. Promotion of solar parks

b. Diversifying our technology mix

c. Creation of payment security mechanisms for RE

d. Both (a) and (c)

e. None of the above

2) What obstacles do the stressed electricity companies face in procuring Renewable Energy?

a. They have very tight budgets as they are already reeling under debt which prevents them from experimenting

b. The policy measures being taken in some states prove to go against the procurement of Renewables

c. Large consumers of electricity already have cheaper sources of energy and hence do not wish to shift to RE

d. Most of the discoms are only interested in serving the needs of the consumers who can pay a higher price for the renewables

e. All except (b)

3) Which of the following would be needed to meet the targets set for 2030?

a. The project development process should be expedited

b. Meeting the challenges faced in procurement of RE by finding timely solutions

c. Boosting transparency in resource potential and grid allocation

d. None of the above

e. All of the above

4) What does the author imply when he proposes building a "diverse technology mix?"

a. India can leverage its geographical diversity to utilize multiple alternative energy uses

b. The demand for energy in a country as big as ours is huge and variety of technologies would be needed

c. Energy needs a lot of flexibility in terms of methods to be tried to help electricity reach households

d. Technologies like floating solar parks have a huge potential in India

e. All of the above

5) Which of the given options is a perfect antonym to the word *'resilience'* as used in the passage?

a. Bouncing back

b. Vulnerability

c. Flexibility

d. Unaffected

e. Both (c) and (d)

6) The following statements have been inferred from the passage. You are required to choose the one that is not true

a. There is a need for a dedicated entity to deal with challenges renewable energy faces in India

b. India is committed to its aim towards real climate action

c. Success in creating enabling frameworks would give new wings to India's renewable energy story

d. Partially indexed RE tariffs are not an immediate solution to increase the attractiveness of RE

e. India's attempts in the direction of Renewable Energy have been successful in the past

7) Which of the following options is the correct synonym to the word *'resolution'* as used in the passage above?

a. Determine

b. Solution

c. Rescue

d. Escape

e. None of the above

Directions (8-12): The sentences given in each question below have been divided into parts in the options. One of these parts may have an error in it. You have to read and choose the erroneous part as your answer (errors of grammar, spelling and context)

8) The trend indicates borrowers' incomes have been insulated so far from the third wave of the pandemic, unless what was seen in the first two.

a. The trend indicates borrowers' incomes

b. have been insulated so far from the

c. third wave of the pandemic, unless

d. what was seen in the first two.

e. No error

9) Poverty is just not a lack of income and the inability to purchase, it is a deeply-rooted multifaceted complex structure comprising economic, social, demographic, cultural, political, and psychological factors.

a. Poverty is just not a lack of income

b. and the inability to purchase, it is a

c. deeply-rooted multifaceted complex

d. structure comprising economic, social,

e. demographic, cultural, political, and psychological factors.

10) The National Gallery of Modern Art, New Delhi celebrated Azadi ka Amrit Mahotsav in Kala Kumbh artist workshops.

a. The National Gallery of

b. Modern Art, New Delhi

c. celebrated Azadi ka Amrit

d. Mahotsav in Kala

e. Kumbh artist workshops.

11) A decent strategy would be to keep the interactions online for as long feasible and then organise for 'meets-in-person' when the pain of nostalgia becomes too much to bear.

a. A decent strategy would be to keep

b. the interactions online for as long

c. feasible and then organise for

d. 'meets-in-person' when the pain of

e. nostalgia becomes too much to bear

12) Well, make-up may give you the glam look, but there are chances that your skin may end up looking dull if you have not maintained a balanced and healthy diet.

a. Well, make-up may give you the glam look,

b. but there are chances that your skin may

c. end up looking dull if you have not maintained

d. a balanced and healthy diet

e. No error

Directions (13-16): The following questions have sentences in which a phrase or a part of the sentence is highlighted. This part might be grammatically incorrect. Choose the correct phrase from the options that would improve the given sentence

13) A healthy body and mind require consume a daily dose of nutrients, including vitamins and minerals.

a. required consuming a daily dose of

b. require consuming a daily dose of

c. required consumption a daily dose of

d. require consumption a daily dose of

e. No improvement needed

14) Lungs play a important role in our body hence it is necessary to prioritize lung health.

a. an important role in our body hence

b. an important role in our body;

c. a important role in the body hence

d. an important role in our body because

e. No improvement needed

15) Mushrooms are a great addition in your diet because they are high in key vitamins and minerals and provide taste to a variety of meals.

a. great addition for your diet because they are

b. great additional for your diet because they are

c. great addition to your diet because they are

d. great addition in diet because they have

e. No improvement needed

16) **Even though people may think that** the increased eye pressure causes pain, it doesn't.

a. Even if people may think

b. Even though people may think that

c. Although people may think as

d. Even as people may think so

e. No improvement needed

Directions (17-22): The following paragraph has words that are missing in the form of blanks. You must read the given content carefully and choose the suitable options from the questions below to complete the paragraph

The _____(A)_____ of Vitamin D is quite common across the country. In 2013, it was estimated that approximately 40 per cent of the Indian population suffered from Vitamin D deficiency. Currently, it has risen to as much as 77 per cent, in both rural and urban areas. This deficiency is particularly _____(B)_____ in adults of the 18-30 years age group. Women belonging to the lower social demographic are also more _____(C)_____ to Vitamin D deficiency. The primary source of Vitamin D is exposure to the sun. However, there are many factors that prevent the majority of the population to get sufficient sun _____(D)_____. Modernisation has meant that most people spend the bulk of their time indoors. Moreover, some of the cultural practices like wearing a burqa limit exposure to the sun. The application of sunscreens and increased skin pigmentation

limits the production of Vitamin D by the skin. A high level of air _____(E)_____ is also a contributing factor as it prevents UVB ray transmission. Dietary habits are also responsible for the vast vitamin D deficiency. Poor dietary habits contribute to a _____(F)_____ intake of Vitamin D as well as calcium. Furthermore, most food rich in Vitamin D are derived from animal sources.

17) Which of the following words will fill the blank labelled (A) as used in the passage?

a. Availability

b. Deficiency

c. Effects

d. Flaw

e. Weakness

18) The best word that completes the second blank from the given options is?

a. Rare

b. General

c. Prevalent

d. Launch

e. Initiated

19) The third blank would take which of the following options from the given words?

a. Affected

b. Aware

c. Open

d. Docile

e. Prone

20) Which of the following would fit the fourth blank from the options given below?

a. Exposure

b. Tan

c. Display

d. Absorption

e. View

21) The best word that completes the blank (E) from the given options is?

a. Contamination

b. Pollution

c. Impurity

d. Index

e. None of the above

22) Which of the given options will fit well in the blank labelled (F)?

a. Least

b. Excessive

c. Lower

d. Most

e. Mere

Directions (23-26): The given sentences have been divided into five parts that are not in their proper order. You have to read the same carefully and rearrange the parts so that they form proper meaningful and coherent sentences

23) environmental factors like UV radiation and pollution (A)/ important during this time. Likewise, hair damage—hair (B)/ that is thin, brittle, dull, or flat—can (C)/ result from many factors, including (D)/ having a skincare routine becomes even more (E).

a. EBCDA

b. EDABC

c. AEBCD

d. BEADC

e. ABEDC

24) and move ahead to solve (A)/ and used to strongly address (B)/ it by bringing in water supply (C)/ he was a man of integrity (D)/ the issues of his village (E).

a. ADEBC

b. EDBAC

c. DBEAC

d. CAEDB

e. BEDCA

25) The scholarship is applicable to (A)/120 credits in the previous academic year (B)/ above and achieving a minimum of (C)/subject to achieving 60% or (D)/each subsequent academic year of study, (E).

a. BEDCA

b. ADBCE

c. CEDBA

d. AEDCB

e. CEBAD

26) past few days, our attention has (A)/ been brought back to our surroundings (B)/ as we witnessed alarming levels of pollution (C)/ in the national capital in the (D)/ and the world that we reside in (E).

a. ADBEC

b. CDABE

c. CBEDA

d. BEDCA

e. DAECB

Directions (27-30): The following questions have sentences in which four words have been highlighted in bold. These words may or may not be placed at their correct positions and might need to be swapped to make the sentence meaningful. Choose the options with the correct pairs to be interchanged in each question as your answer

27) The demand for an MBA **(A) continue** is still high and will **(B) degree** to be high because of the **(C) offer** returns it has to **(D) massive** to students.

a. B-A

b. D-C

c. A-C

d. Both (a) and (b)

e. B-D, A-C

28) The demand for cybersecurity **(A) experts** has doubled year **(B) organisations** with rising global concerns of security **(C) breaches** and rapid digitalisation across **(D) amidst** and institutes.

a. A-C

b. B-D

c. A-D

d. A-B

e. No interchange needed

29) In recent times there has been an **(A) increasing** awareness about the **(B) consequences** of our choices, particularly what we choose to consume and how we **(C) dispose** of our products at an individual and **(D) societal** level.

a. A-B, C-D

b. B-D only

c. A-D, B-C

d. A-C only

e. No interchange needed

30) The increasing formalisation of the **(A) smaller**, wherein larger companies are **(B) hurting** away share from **(C) economy**, unorganised-sector players, does seem to be **(D) taking** the latter.

a. A-B only

b. B-D, A-C

c. A-C only

d. A-B, C-D

e. B-D only

Answer Key with Explanation

1) Answer: B

Looking at the content of the first paragraph makes it very clear that all the given measures

have been discussed but the question is specifically about the measures that should be prioritized. So, only the second option can fulfil

the same as the author says three critical steps should be prioritized and the one in the options is the first of those.

Options (a) and (c) have been mentioned as the measures that have already been taken and that have proven to be game-changers (successful).

So, eliminating the other options, we can mark (b) as the correct answer.

2) Answer: B

The third paragraph has got enough reference for us to reach the answer. Refer to the lines given below for the same:

Only four states met or surpassed their renewable purchase obligation in 2019-20. *Adverse policy measures in some states* have made it difficult for large consumers to shift to cheaper RE sources.

Therefore, the best option is (b).

3) Answer: E

The answer to the following question can be found in the last paragraph of the passage. One simple reading will help us understand that all these points along with many others have been mentioned which will help in meeting the targets for 2030.

Therefore, the best option is (e).

4) Answer: A

The second paragraph of the passage talks about this critical measure that should be prioritized in the coming days. The paragraph

beautifully explains how a certain area can be fit for trying a certain technology based on the geography and it also mentions that promoting RE in this way would make it acceptable for the communities as well.

Therefore, the best option is (a).

5) Answer: B

The word 'resilience' generally means the ability to bounce back or rise after having failed or fallen in a particular attempt. The line where the word has been used is also implying the same in terms of the power systems that need to be able to face the challenges and bounce back.

However, we need an opposite here which would mean to be able to get affected easily. Such a word from the options is 'Vulnerability' and hence other options can be eliminated.

Therefore, option (b) is the correct answer.

6) Answer: D

All the statements except (d) have been inferred correctly from the passage.

In the last line of the third paragraph, it has clearly been given that this will be an immediate solution and hence this option is untrue.

Option (a) can be inferred from the last few lines of the passage that talk about the National Renewable Energy Corporation (NREC) and how it will make things easier for the investors etc.

Options (b), (c) and (e) can be inferred very clearly form the entire first paragraph.

So, the best option is (d).

7) Answer: B

The line talks about a quicker resolution which means a solution or a resolve to the challenges or problems being faced.

Therefore, (b) is the direct option.

8) Answer: C

The sentence is presenting a comparison between the situation of the incomes of the borrowers in the previous two waves and the present wave. The previous case was not like the present.

As per the above, the correct word in place of 'unless' would be 'unlike'

Therefore, option (c) is the best answer.

9) Answer: A

'Just not' is a phrase that tells us that something is impossible or unacceptable

'Not just' is a phrase we use when we wish to show that one thing is true along with the other as well.

The sentence tells us two things about poverty. So, the correct phrase required would be the second one.

Therefore, the best option is (a).

10) Answer: D

The correct preposition to be used in the fourth part is 'with' Kala Kumbh artists and not 'in'.

So, the correction is needed in option (d).

11) Answer: B

The correct option is (b).

The right phrase that should be used is 'as long as' which means till a specific time…

12) Answer: E

The given sentence is correct as it is and hence, no improvement in the same is required.

Therefore, (e) is the correct answer.

13) Answer: B

If we use consumption, it should be followed by 'of' which is not the case in both the options (c) and (d) so these can be eliminated.

Also, (a) is wrong with the usage of 'required' so this can be ruled out as well.

Remaining option (b) is correct on all fronts and is the right answer.

14) Answer: A

The word 'important' starts with a vowel and hence should be preceded by the article 'an'. Option (c) thus, gets eliminated.

Option (b) would look incomplete in the sentence and option (d) ends with 'because' which is also not needed.

Therefore, the best option is (a).

15) Answer: C

'Addition' is mostly followed by the preposition 'to' and not the other prepositions given in the options. Other options have more errors as well so, the best option that replaces the part in bold above is (c).

16) Answer: B

Either 'Even though' or 'Although' will suit the sentence as the desired meaning is 'despite the fact that' and this eliminates options (a) and (d).

Option (c) gets ruled out due to the word 'as' in the end of the option. So, the best option that replaces the given sentence is (b).

17) Answer: B

The hint for the word that will fit the first blank lies in the line following the blank which says '…suffered Vitamin D deficiency…'

So, it is clear that the word that should come is option (b) and the other options should be eliminated.

18) Answer: C

The line talks about the deficiency and that it is particularly found in a specific age group. So, a word that means 'found' is 'prevalent'.

Other options do not fit grammatically and contextually.

Therefore, the best option is (c).

19) Answer: E

Prone to means likely to suffer from. Also, the preposition 'to' gives a hint that options (a) and (b) will be inappropriate.

Now, no one can be 'open to' or 'docile (friendly) towards' something unpleasant so even these options can be ruled out.

Therefore, option (e) is the best option.

20) Answer: A

The article is talking about lack of Vitamin D which is caused due to not being able to soak in the sun. This meaning can be evinced through the phrase; '…exposure to the sun…'

'Sun tan', 'sun display', 'sun absorption' and 'sun view' do not make any sense.

So, option (a) is the best answer.

21) Answer: B

It is the easiest one.

As soon as we scan the option, we know that the correct word would be 'pollution'. The word contamination is generally used with 'water' otherwise it would also have been correct.

Other options are illogical and therefore, (b) is correct.

22) Answer: C

Poor diet leads to lesser intake of nutrients. So, the closest word in the options will be (c).

Least, most and excessive are extreme words that won't make a difference. Mere means a little bit of something but enough. So, this word is also inappropriate.

Therefore, option (c) is the correct answer.

23) Answer: A

'…even more important…' is a great link that is, EB forms a great link. Options (a) and (c) have this link and hence the other options can be eliminated.

Trying the options, we can easily find that the first option is the correct answer.

Therefore, option (a) is correct.

24) Answer: C

'…address the issues…' is the best continuation that we can take as a hint. This means BE is a good link. This link is found in options (c) and (e) but the sentence cannot start with B and hence, the best answer is option (c).

25) Answer: D

'…60% or above…' is a good link which means C should follow D.

Options (a) and (d) must further be tried. On trying we come to know that the correct sequencing has been given in option (d) as part A can start the sentence but not B.

Therefore, option (d) is correct.

26) Answer: B

'…levels of pollution in the national capital…' is the correct link and this tells us that CD is a strong link. CD is together in just one option. Also, we do not even have None of these as one of the options. So, this is a real quick choice.

Option (b) is the correct answer.

27) Answer: D

Both A-B and C-D need to be interchanged as all the words have been misplaced.

'MBA-degree' and 'massive-returns' are the keywords that should come together.

So, the best option is (d).

28) Answer: B

'…across organizations and institutes…' is the correct usage.

So, it is clear that the word 'organizations' should be in place of (D) and this clarifies that the pair of words in option (b) should interchange.

Therefore, option (b) is the correct answer.

29) Answer: E

The given words are at their correct positions and do not need any interchange.

Therefore, the best option is (e).

30) Answer: B

The pair of words in option (b) have to be interchanged in order for them to make sense.

Therefore, the second option should be the correct answer.

SBI CLERK PRELIMS ENGLISH LANGUAGE MEMORY BASED PAPER-2020

Directions (1-8): The passage given below has questions based on them. Some words and phrases have also been highlighted as questions have also been framed on the same. Read the same carefully and answer the questions that follow

The recent circular of the Reserve Bank of India (RBI) that allows Small Value Digital Payment in the Offline Mode is one such initiative in this direction, and it is expected that this shall *spur* innovation to enable digital payments where internet connection is unsteady or even absent. Before the current circular, a customer buying, say, milk from a roadside stall in a Tier 4 town could often face challenges in making a digital payment. She could face the problem of the transaction not getting initiated or dropping mid-way due to an unsteady network connection. Also, sometimes, she could seeing her account being debited without successful receipt of the amount of the transaction by the stall owner. Any such experience not only pushes her to use cash but also leads to a shift in her behaviour to use cash in other similar situations. The new circular allows payment system operators offer convenient, low-value-payment acceptance mechanism not only in above situation but also at locations that do not have network connectivity.

The offline mode can only be enabled with customer consent and requires the payment service provider (PSP) to implement safeguards to protect the customer. The offline mode is only allowed in the proximity (face to face) mode, and can be used for a transaction value of up to '200 with a cumulative limit of Rs 2,000. The cumulative limit can be reset only in the online mode with additional factor authentication (or AFA, like an OTP). There is no compulsion to

instantly send alerts for each transaction. However, an alert needs to be sent as soon as the transacted amount is received by PSP and an alert can *exclude* multiple transactions, albeit each transaction needs to be adequately conveyed. The circular provides for such transactions using cards without the need to switch on the contactless (NFC) transaction channel, thereby allowing usage over a large section of the card infrastructure that does not support contactless payments.

The move to allow offline mode is going to spur innovation in the payment industry, bringing digital payment solutions that do not require internet access. These include innovative offerings leveraging Secure Element (SE) that is present in every mobile phone SIM and SIM-overlay solutions that can even enable additional features on basic mobile phones to securely transact. The ability of SIM-overlay solutions to enable end-to-end encryption over USSD/ SMS messages, which do not require internet connectivity, can be used to replenish the cumulative limit for offline transactions. A good use case for offline payment mode would be situation that is characterised by a requirement of low-value, instant transactions, such as reloadable wallets/cards supporting rapid ticketing at mass transport systems or multi-use city cards/wallets. However, it is crucial that safeguards and customer protection practices, as recommended in the RBI circular, are strictly implemented such that the initiative does not

lead to customer inconvenience. In this regard, campaigns (A)/ should be rolled up (B)/ to build widespread awareness of (C)/protection features and (D)/ benefits for the customers (E). Another, benefit of offline mode of transaction that can be explored is reduction of real-time load on central systems. As country adopts more and more digital payments such measures would be important measure to reduce such concentration risks.

1) The word 'exclude' might have wrongly been used in the passage above. Choose the option that would best replace the same.

a. Caution

b. Enter

c. Omit

d. Include

e. Convey

2) What is the main idea of the passage?

a. The passage discusses various modes of online payment options available for the customers

b. Allowing small-value transactions in the offline mode is a leap forward as per the author

c. India has seen a tremendous growth in digital payments and we can witness this everywhere around us

d. The pandemic has acted as a catalyst driving a behavioural change among the consumers

e. People have become sceptical about using online payment options after facing various glitches in transactions

3) Which of the following is one of the safeguards w.r.t offline payments for the consumers?

a. Only low-value-transactions will be allowed without customer's consent via the offline mode

b. The cumulative limits of the transactions in the offline mode can be reset but only online through authentications

c. The offline digital transactions can only be carried out face-to-face and not from anywhere

d. For each offline transaction, an instant alert must be sent to the customer

e. Both (b) and (c)

4) Why has the example of a customer buying milk from a roadside shop been given in the first paragraph?

a. To explain the biases that the consumers of the Tier-4 cities face

b. To provide evidence on how some people are still not comfortable with technology

c. To explain the adverse impact of poor network connectivity on the digital transactions

d. To weaken the RBI's new step towards innovation in the digital payment spectrum

e. All of the above

5) What would help digital transactions in the absence of internet?

a. Secure Element and SIM Overlay options that are present even in basic phones

b. More number of people own smartphones at present which are suitable for making such payments

c. The messages sent to these phones are encrypted over USSD or SMS messages

d. Basic phones can carry out these transactions in proximity without an internet connection

e. All (b), (c) and (d)

6) Which of the following is the best synonym to the word 'spur' as used in the passage above?

a. Inhibit

b. Induce

c. Fasten

d. Prick

e. Both (b) and (d)

7) Which of the following is not true as per the context of the passage?

a. Offline transactions can reduce the real-time load on central systems.

b. Offline transactions can be used for instant transactions such as reloadable wallets etc.

c. These transactions can use cards without the need to switch on the contactless (NFC) transaction channel

d. An alert needs to be sent as soon as the transacted amount is received by PSP

e. None of these

8) Choose the part of the sentence highlighted above that has an error in it

a. C

b. E

c. B

d. A

e. D

Directions (9-14): The following questions given below have a sentence each that has been divided into five parts of which one may be erroneous. You have to read the same and mark the part with the error as your answer

9) IGNOU as an establishment has continuously strived to build an inclusive knowledge environment and he hoped that this collaboration will provide an opportunity to India's youth population to build their capacities and shape their future.

a. IGNOU as an establishment has continuously

b. strived to build an inclusive knowledge

c. environment and he hoped that this collaboration

d. will provide an opportunity to India's youth

e. population to build their capacities and shape their future

10) One of the fittest cricketer going around in the world, Kohli's story, just like Djokovic's, merits a book – how he gave up meat and turned into a lean machine.

a. One of the fittest cricketer going around

b. in the world, Kohli's story, just like

c. Djokovic's, merits a book – how he

d. gave up meat and turned into a lean machine

e. The sentence is correct

11) About 95 per cent of the people employed by the firms are these delivery boys, who perform the task of picking up the product from the warehouse and deliver it to our homes and offices.

a. About 95 per cent of the people employed

b. by the firms are these delivery boys,

c. who perform the task of picking up the

d. product from the warehouse and

e. deliver it to our homes and offices

12) The US has been the lone global superpower since more than three decades, since the dying days of the Soviet Union and the early years of a weak Russian Federation as its successor state.

a. The US has been the lone global

b. superpower since more than three decades,

c. since the dying days of the Soviet

d. Union and the early years of a weak

e. Russian Federation as its successor state

13) The programme will be provided by the Bharat Adhyayan Kendra in collaboration with the Departments of Philosophy and Religion, Sanskrit, and Ancient Indian History, Culture, and Archaeology, all of which are part of the Arts department.

a. The programme will be provided by the Bharat Adhyayan Kendra

b. in collaboration with the Departments of Philosophy and Religion,

c. Sanskrit, and Ancient Indian History, Culture, and Archaeology,

d. all of which are part of the Arts department

e. The sentence does not have an error

14) As the world adjust to a new normal, and with a millennial population of over 440 million in the country, the co-living sector is set to rise rapidly and witness a whole new set of innovations.

a. As the world adjust to a new

b. normal, and with a millennial population

c. of over 440 million in the country, the

d. co-living sector is set to rise rapidly

e. and witness a whole new set of innovations

Directions (15-19): The following questions have sentences in which four words have been highlighted. These words might need to be interchanged in order to make complete sense. Choose the option that gives the correct combination that needs to be swapped

15) The co-living (A) study will look to (B) amalgamate cutting-edge technology to (C) cater to the growing work and (D) players needs of millennials.

a. A-B

b. B-D

c. A-D

d. B-C

e. C-D

16) Aviation turbine fuel (ATF) cost is a significant **(A) boost** of the operational expenses of **(B) carriers** and the civil aviation ministry has been pitching for lower rates in order to **(C) component** the airline industry that has also been **(D) adversely** hit by the coronavirus pandemic.

a. B-D

b. A-C

c. A-B

d. C-D

e. B-C

17) Our Prime Minister's **(A) aspirations** is to fulfil the **(B) vision** of India's youth and **(C) prepare** them for the future world of work and this initiative is **(D) aligned** with it.

a. A-D

b. B-D

c. C-D

d. A-B

e. No interchange needed

18) Young couples are **(A) aiming** to experience this once in a lifetime **(B) event** with their closest family and **(C) village**, versus inviting half the **(D) friends**!

a. C-D

b. A-B

c. B-C

d. A-D

e. A-C

19) Wedding planners and stylists today are **(A) displaying** much more **(B) novelty** in design than ever before and reverse **(C) destination** weddings actually **(D) allow** us to bring our work out in a more detailed and fun way.

a. A-D

b. B-C

c. A-B

d. No interchange needed

e. B-C

Directions (20-25): The following sentences given below have a phrase or a part of the sentence that has been highlighted. Choose the option that best replaces the given phrase to make a correct and meaningful sentence

20) While partying, **one's makeup tend to get mixed with sweat** and dirt that can cause skin problems like acne and blemishes later.

a. ones makeup tend to get mixed with sweat

b. one's makeup tends to get mixed with sweat

c. one's make-up tends to mixed with sweat

d. ones makeup tends to get mixed with sweat

e. No improvement needed

21) But Brengle, **a American ranked 54th, increased the pressure on the second set** and broke Osaka's serve in the seventh game.

a. the American ranked 54th, increases the pressure in the second set

b. an American ranking 54, increased the pressure into the second set

c. an American ranked 54th, increased the pressure in the second set

d. an American ranked 54th, increased the pressure of the second set

e. No improvement needed

22) This move **comes while he allegedly used inappropriate language against** Kotak Group staffers and an ongoing tussle with the bank.

a. comes after he allegedly used inappropriate language against

b. comes when he allegedly used inappropriate language against

c. comes after he allegedly uses inappropriate language against

d. come while he allegedly used inappropriate language against

e. No improvement needed

23) There has been **a significant growth in adoption as well as** deepening of digital payments across the country.

a. an significant growth in adoption as well as

b. a significant growth for adoption as well as

c. significant growth on adoption as well as

d. a significant growth in adoption as well

e. No improvement needed

24) MSMEs have cited challenges related to high costs, exchange-related **issues and concerns for frauds while doing** business across borders

a. issues and concerned about frauds while doing

b. issues and concerns around frauds while doing

c. issue and concerns around fraud in doing

d. issues and concerns of frauds while doing

e. No improvement needed

25) Traders say that **because recurring lockdowns, the majority of the hotels were** closed and consumption of garlic was very low during that period.

a. Because of recurring lockdown, the majority of the hotels were

b. due to recurring lockdowns, the majority of the hotels was

c. Since recurring lockdowns, the majority of the hotels were

d. due to recurring lockdowns, the majority of the hotels were

e. No improvement needed

Directions (26-30): The paragraph given below has five blanks in it and these shall be filled with the words given in the options below. Read the same carefully and answer the questions that follow

Entertainment in India is important and every kind of entertainment is important as it has long been people's stress ____(A)____. However, the pandemic has taken a toll on the entertainment industry worldwide. Now, the world has moved towards the OTT platform, i.e. Over The Media and that has ____(B)_____ the place of motion pictures for a moment. Although the movies have

taken a backside, OTT platforms have been a prime face in entertaining people and making their lives more and more stress-free. Many new faces are coming into this industry with the ___(C)___ to get famous. Where the OTT platform has been appreciated by the audience, many models have been taking the modelling industry by storm. One such model who has been inspiring is Ava Aashna Chopra, her journey has been full of ____(D)_____ and she was honoured to be the first Southeast Asian model to feature twice on the cover page of L'Officiel Latvian Edition in Eastern Europe. Ava has chosen this enchanting profession and worked tremendously to become the known face. Her ____(E)____ has been showcased by the various videos and hots that she keeps sharing on social media. The global modelling industry is back into action after the months of stagnation.

26) The blank labelled (A) will take which of the following words from the given options?

a. Alleviation

b. Buster

c. Issues

d. Creator

e. None of the above

27) The second blank in the passage will be best filled by which option?

a. Replaced

b. Took

c. Achieved

d. Conquered

e. Hijack

28) Which of the following words will fit the blank following the word the in the paragraph above?

a. Hope

b. Desperation

c. Demand

d. Experience

e. None of the above

29) Which word from the options would be correct for the blank (D) in the paragraph above?

a. Pride

b. Intention

c. Determination

d. Support

e. Capability

30) The best word that fits the last blank in the paragraph is?

a. Tour

b. Campaign

c. Development

d. Progression

e. Journey

Answer Key with Explanation

1) Answer: D

The sentence where the word 'exclude' has been used is explaining that the SMS alerts may provide information about one or more than one transaction at a time. So, the word that is required here would be 'include'. '…the SMS would include…'

So, the best option that can be chosen is (d).

2) Answer: B

Options (a), (c) and (d) have not directly been given in the passage although the passage has been given on the theme of digital payments only. So, these three options can be eliminated.

Out of options (b) and (e), we must understand that (b) presents the central idea of the passage more appropriately and (e) is has been mentioned as one of the reasons supporting offline digital payments.

Hence, the best option is (b).

3) Answer: E

The entire second paragraph discusses the safeguards that have been released by the RBI in their circular out of which the following lines can be referred below for the correct options:

The offline mode is *only allowed in the proximity (face to face) mode*, and can be used for a transaction value of up to '200 with a cumulative limit of Rs 2,000. The cumulative limit *can be reset only in the online mode* with additional factor authentication.

Therefore, the best option that can be marked as the answer is (e).

4) Answer: C

The introductory paragraph of the passage has been dedicated to the new initiative that has been announced through an RBI circular about the offline digital transactions.

The example mentioned above indicates that a customer is open to making payment digitally at the shop but is demotivated as there is a network issue that prevents a smooth transaction.

So, this is best explained in option (c).

5) Answer: A

Refer to the lines from the last paragraph given below:

The move to allow offline mode is going to spur innovation in the payment industry, bringing digital payment solutions that do not require internet access. *These include innovative offerings leveraging Secure Element (SE) that is present in every mobile phone SIM and SIM-overlay solutions* that can even enable additional features on basic mobile phones to securely transact.

Understanding through this paragraph will make it easier for us to find an answer to the question.

6) Answer: B

The line that uses the word 'spur' talks about promoting or encouraging innovation and the

word that would be near to this meaning would be induce.

Inhibit means to obstruct or stop something from happening so this can be an antonym to the word.

Fasten and Prick do not fit the context and hence should be eliminated.

Therefore, the best option is (b).

7) Answer: E

All the given statements are true and hence as required by the question, none of these is false.

So, the correct answer should be (e).

8) Answer: C

Part B of the sentence has an error as the wrong phrasal verb has been used in the same.

The correct phrase required is 'rolled out' which means officially launch or introduce a new product or service whereas 'rolled up' means turn something flexible over and over.

Therefore, the best option is (c).

9) Answer: B

The error lies in the second option as the word 'strived' is in the 2nd form but it should be in the 3rd form as it follows 'has' which tells us that the sentence uses the present perfect form of tense.

The correct usage would be; '…has continuously **striven**…'

Therefore, the correct option is (b).

10) Answer: A

The error lies in the first part of the sentence as the incorrect phrase has been used.

The phrase '…one of…' must always be followed by a plural countable noun so in this case, the word 'cricketer' is wrong and it must be made 'cricketers' to be correct.

Therefore, the correct answer is (a).

11) Answer: E

The rule of parallelism is being violated in this sentence. Two tasks of the delivery boys have been mentioned in there but one is a gerund and the other is in the first form. So, the best is to modify the verb in the last part ie; 'deliver' to be changed to 'delivering'.

'…picking up and delivering…'

Therefore, the best option is (e).

12) Answer: B

The word 'since' has wrongly been used in the second part.

When the definite time duration is given, we use 'for' and not 'since'

So, the correct usage would be '…for more than three decades…'

Therefore, the best option is (b).

13) Answer: E

There's no error in the given sentence and hence, the correct answer is option is (e).

14) Answer: A

There is a subject-verb error in the first part of the sentence. The word 'adjust' has been used for 'world' which is a singular subject.

The correct usage should be '…the world adjusts…'

Hence, option (a) is the correct answer.

15) Answer: C

It's a pretty simple choice to mark as the two words that are not at their correct positions are study and players.

These after interchanging would make a completely meaningful sentence.

Therefore, option (c) is the correct answer.

16) Answer: B

'…boost the airline industry…' will be correct and hence it should be interchanged with the word in place of A.

So, the correct option is (b).

17) Answer: D

Aspirations and Vision both suit contextually at their places but grammatically aspirations which is plural cannot be followed by is.

So, the best is to interchange 'aspirations' and 'vision' that will make the sentence correct.

Therefore, the best option is (d).

18) Answer: A

'…family and friends…' and '…half the village…' will be the correct phrases to be used.

So, it is clear that the words 'friends' and 'village' must be interchanged to make the sentence correct and meaningful.

Therefore, the best option is (a).

19) Answer: D

The given sentence places all the words in their correct positions and hence no interchange or swap is needed.

Therefore, option (d) is the correct answer.

20) Answer: B

The only place we use 'ones' is when we are using it to mean examples or people. So, options (a) and (d) can be ruled out.

Out of the remaining options, option (b) is a better option than (c) and hence we select that. Also, singular verb 'tends' must follow the singular subject 'makeup'.

21) Answer: C

'An' is a better article that goes with American as it starts with a vowel, that's one.

Two, 'ranked' and 'increased' both should be parallel and hence in the third form.

Three, '…pressure in the set…' and not the other given prepositions would be correct.

Therefore, (c) is the best option.

22) Answer: A

Move should be followed by comes so option (d) should be eliminated.

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After is better than when so option (b) is also wrong.

After he did something should be the formation as the event has already happened. So, 'used' should be correct.

All these can be found in option (a).

23) Answer: E

The given sentence is absolutely correct and hence, no change is needed in the same.

The given options are rather erroneous.

Therefore, option (e) is the best answer.

24) Answer: B

The grammatically correct phrase is given in the second option and all the other options are not correct and coherent.

Hence, option (b) is correct.

25) Answer: D

Option (a) is wrong because of the singular use of the word 'lockdown' even when it is mentioned that they are recurring means more than once they have happened.

Option (b) can be eliminated due to the usage of was at the end.

Option (d) is grammatically perfect for the given sentence and hence, is the correct answer.

26) Answer: B

It's a very common usage a 'stress buster' which means something that kills stress or enables people handle it.

So, other options can be cancelled outright.

And, option (b) is the best choice.

27) Answer: D

The word that is best for the second blank is conquered as we need a certain word here that intends that OTT has taken over or taken the place of movies etc.

Replaced the place will be redundant so this option can be ruled out. Took is in the wrong form instead it could have been 'taken'. 'Achieved' and 'Hijacked' will be meaningless in the context.

So, the best is to go with option (d).

28) Answer: A

The option that we wish to fill in the blank should mean 'with a wish to' or 'with a dream of' getting famous. Now, grammatically, even options (b) and (c) could be correct but contextually, they would be extreme and incorrect.

So, the best word is 'hope' of getting famous.

Therefore, the best option is (a).

29) Answer: C

It's about a girl who was persevering towards a difficult goal in spite of obstacles. So, a word like pride won't be suiting the context of the paragraph.

Determination is a better word than intention and hence, option (c) is the best answer.

30) Answer: E

Tour is very impractical to fit in the given context so this can be eliminated without a second thought.

The paragraph is talking about a person's determination and process of achieving a particular goal. Fitting that, only one option can be appropriately used and that is 'Journey'. Therefore, the best option is (e).

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Directions (1-5): In the question below, a sentence is divided into four parts out of which one part has an error in it. Find the part with error and mark that as your answer.

1. Three decades after it's economy **(A)** / was liberalized, India remains **(B)** / a complex and challenging **(C)** / place to do business. **(D)**/ No error.

a. A

b. B

c. C

d. D

e. No error

2. The much-awaited vehicle scrappage policy announced by the Transport Ministry, **(A)**/ coming after the move for a green tax **(B)**/ on ageing and polluting automobiles, **(C)**/ promising economic benefit. **(D)**/ No error.

a. A

b. B

c. C

d. D

e. No error

3. Iran is not the only country **(A)**/ there the US has sought to destabilize **(B)**/ hostile governments through intensive **(C)**/ intervention in domestic politics. **(D)**/ No error.

a. A

b. B

c. C

d. D

e. No error

4. Ambiverts can be good salespeople because they are **(A)**/ able to listen to their clients and understand their needs **(B)**/ and also have an energy to sell **(C)**/ their firms' goods and services. **(D)**/ No error.

a. A

b. B

c. C

d. D

e. No error

5. America's main financial regulator looks poised to **(A)**/ introduce rules forcing firms to **(B)**/

reveal how climate change or efforts to fight it **(C)**/ may affect their business. **(D)**/ No error.

a. A

b. B

c. C

d. D

e. No error

Direction (6-13): Read the passage carefully and answer the questions given below it. Certain words/phrases have been given in bold to help you locate them while answering some of the questions.

Fear is an emotion induced by perceived danger or threat, which causes physiological changes and ultimately behavioral changes, such as mounting an aggressive response or fleeing the threat. Fear in human beings may occur in response to a certain stimulus occurring in the present, or in anticipation or expectation of a future threat perceived as a risk to oneself. The fear response arises from the perception of danger leading to confrontation with or escape from/avoiding the threat (also known as the fight-or-flight response), which in extreme cases of fear (horror and terror) can be a freeze response or paralysis. In humans and other animals, fear is modulated by the process **of** _____ and learning. Thus, fear is judged as rational or appropriate and irrational or inappropriate. An irrational fear is called a phobia. Fear is closely related to the emotion anxiety, which occurs as the result of threats that are perceived to be uncontrollable or unavoidable. The fear response serves survival by engendering appropriate behavioral responses, so it has been preserved throughout evolution. Sociological and organizational research also suggests that individuals' fears are not solely dependent on their nature but are also shaped by their social relations and culture, which guide their understanding of when and how much fear to feel.

Fear of the unknown or irrational fear is caused by negative thinking (worry) which arises from anxiety accompanied by a subjective sense of apprehension or dread. Irrational fear shares a common neural pathway with other fears, a pathway that engages the nervous system to mobilize bodily resources in the face of danger or threat. Many people are scared of the "unknown". The irrational fear can branch out to many areas such as the hereafter, the next ten years or even tomorrow. Chronic irrational fear has **deleterious** effects since the elicitor stimulus is commonly absent or perceived from delusions. Such fear can create comorbidity with the anxiety disorder umbrella. Being scared may cause people to experience anticipatory fear of what may lie ahead rather than planning and evaluating for the same. For example, "continuation of scholarly education" is perceived by many educators as a risk that may cause them fear and stress and they would rather teach things they've been taught than go and do research. That can lead to habits such as

laziness and procrastination. The **anxiety(a)** of situations that tend to be uncertain and **psychological (b)** can cause **ambiguity(c)** in addition to other **unpredictable(d)** and physical problems in some populations; especially those who engage it constantly, for example, in war-ridden places or in places of conflict, terrorism, abuse, etc. Poor parenting that instills fear can also debilitate a child's psyche development or personality. For example, parents tell their children not to talk to strangers in order to protect them. In school, they would be motivated to not show fear in talking with strangers, but to be assertive and also aware of the risks and the environment in which it takes place. Ambiguous and mixed messages like this can affect their self-esteem and self-confidence. Researchers say talking to strangers isn't something to be thwarted but allowed in a parent's presence if required. Developing a sense of equanimity to handle various situations is often advocated as an antidote to irrational fear and as an essential skill by a number of ancient philosophies.

Though many fears are learned, the capacity to fear is part of human nature. **Most studies have found that certain fears (e.g. animals, heights) are much more common than others (e.g. flowers, clouds)**. These fears are also easier to induce in the laboratory. This phenomenon is known as preparedness. Because early humans that were quick to fear dangerous situations were more likely to survive and reproduce, preparedness is theorized to be a genetic effect that is the result of natural selection. From an evolutionary psychology perspective, different fears may be different adaptations that have been useful in our evolutionary past. They may have developed during different time periods. Some fears, such as fear of heights, may be common to all mammals and developed during the Mesozoic period. Other fears, such as fear of snakes, may be common to all simians and developed during the cenozoic time period. Still others, such as fear of mice and insects, may be unique to humans and developed during the Paleolithic and Neolithic time periods (when mice and insects become important carriers of infectious diseases and harmful for crops and stored foods)

6) Which of the following words is synonym for deleterious according to the passage?

a. Accolade

b. Pernicious

c. Innocuous

d. Favorable

e. None of the above

7) Four words are given in bold. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct.

The **anxiety(a)** of situations that tend to be uncertain and **psychological (b)** can cause **ambiguity(c)** in addition to other **unpredictable(d)** and physical problems in some populations.

a. a-b

b. a-d, b-c

c. a-d, b-c

d. a-c, b-d

e. All of the above

8) The sentence may or may not replace the word/phrase printed in bold. Mark the correct option to make the sentence meaningfully and contextually correct. If the sentence is correct as it is given, mark (e) as your answer.

Most studies have found that certain fears (e.g. animals, heights) are much more common than others (e.g. flowers, clouds).

a. Many studies have found that certain fears

b. Much studies have found that certain fears

c. More studies has found that certain fears

d. Much studies has found that certain fears

e. None of the above

9) What kind of fear developed during Mesozoic period according to the passage?

a. fear of heights, may be common to all mammals

b. fear of snakes, may be common to all simians

c. fear of mice and insects, may be unique to humans

d. when mice and insects become important carriers of infectious diseases and harmful for crops and stored foods

e. None of the above

10) Which of the following statements are not true to the context of the passage given.

I) fear is judged as rational or appropriate and irrational or inappropriate. A rational fear is called a phobia.

II) The fear response serves survival by engendering appropriate behavioral responses, so it has been preserved throughout evolution

III) Fear of the unknown or irrational fear is caused by positive thinking (worry) which arises from anxiety accompanied by a subjective sense of apprehension or dread.

a. Only III

b. Both I & III

c. Both II & III

d. Only II

e. All of the above

11) What is the cause of fear according to the passage?

I) It occurs as the result of threats that are perceived to be uncontrollable or unavoidable

II) It causes physiological changes and ultimately behavioral changes, such as mounting an aggressive response or fleeing the threat.

III) The cause of fear may debilitate a child's psyche development or personality.

a. Only II

b. Both I & III

c. Both II & III

d. Only II

e. All of the above

12) Which kind of fear engages the nervous system to mobilize bodily resources in the face of danger or threat according to the passage?

a. Innate Fear

b. Chronic Irrational Fear

c. Rational Fear

d. Irrational Fear

e. None of the above

13) Which of the following word will fill the blank to make the sentence meaningful ?

a. Adaptation

b. Apprehension

c. Cognition

d. segregation

e. Esteeming

Directions (14-18): The following questions consist of a sentence. Four of the words of the sentences are marked in bold, which may or may not be correctly spelt. Option corresponding to misspelt word is your answer. If there is no misspelt word in the sentence then choose (d), i.e., 'All are correct' as your answer.

14) Parliament on Thursday **approved** a bill that seeks to set up a **comission** for air quality **management** in the National Capital Region and its **adjoining** areas.

a. Approved

b. Comission

c. Management

d. Adjoining

e. All are correct

15) With heavy rains **ravaging** the Gwalior-Chambal region in Madhya Pradesh, leaving two people dead and **damaging** bridges and other **infrastructure**, Chief Minister Shivraj Singh Chouhan said the state has "not seen such **devestation** in the last 70 years".

a. Ravaging

b. Damaging

c. Infrastructure

d. Devestation

e. All are correct

16) India strongly **rejected** a statement on Jammu and Kashmir by the Organization of Islamic Cooperation (OIC) and asked it to **refrain** from allowing the **vested** interests to **expliot** its platform for comments on internal affairs of the country.

a. Rejected

b. Vested

c. Expliot

d. Refrain

e. All are correct

17) Delhi Police restricted 400 farmers from **protesting** at Jantar Mantar and **shifted** them to the Singhu border. The farmers, who were on their way to Jantar Mantar to **demonstrate** against the three **contentiuos** farm laws enacted in 2020, were detained at the New Delhi railway station.

a. Protesting

b. Shifted

c. Demonstrate

d. Contentiuos

e. All are correct

18) Newly appointed Punjab Congress president Navjot Singh Sidhu was shown black flags by farmers and **contractual** employees during his visit to Moga. The protesters also tried to break **barricades** to reach Navjot Singh Sidhu, but were stopped by police **parsonnel** who were **deployed** in large numbers, police said.

a. Contractual

b. Barricades

c. Parsonnel

d. Deployed

e. All are correct

Directions (19-24): In the questions given below, there is a sentence in which one part is given in bold. The part given in bold may or may not be grammatically correct. Choose the best alternative among the four given which can replace the part in bold to make the sentence grammatically correct. If the part given in bold is already correct and does not require any replacement, choose option (e), i.e. "No replacement required" as your answer.

19) Maria had delivered a solo guitar performance before introducing Neil, **who has prepared to speak to** his supporters about the pandemic that's upending every inch of our daily lives.

a. Whom has been preparing for speaking to

b. Who was prepared to speak to

c. Who was being prepared to speaking to

d. Who was prepared to speaking to

e. No replacement required.

20) The CEO agrees that his company **shall be regulated when it** comes to harmful content on the social media platforms.

a. Shall be regulate if it

b. Shall be regulated when its

c. Would be regulated when its

d. Should be regulated when it

e. No replacement required.

21) Based on information we had, the attorneys agreed that the case looked suspicious.

a. Basis on information we had

b. Based on information we were having

c. Based on the information we had

d. Based on the information she have

e. No replacement required.

22) It will be another billion years until the Sun **runs out of fuel and swells into** a red giant star before going into a white dwarf form.

a. Ran out of fuel and swells into

b. Run out of fuel and swells into

c. Runs out of fuel and swelled into

d. Runs out without fuel and swells into

e. No replacement required.

23) For most of the time, legalized **gambling is almost exclusive** associated with Las Vegas.

a. Gambling is almost exclusively

b. Gambling was almost exclusive

c. Gambling has being almost exclusively

d. Gambling is being almost exclusively

e. No replacement required.

24) The politician wanted to **strick balance between** withholding his position and getting into a rapid exchange of opinions.

a. strike a balance between

b. striking balance among

c. have stroked a balance between

d. having strike between

e. No correction required

Directions (25-30): Read the following passage and answer the questions as directed. There are some blanks given in the passage. You have to find the appropriate word for the given blank and mark the corresponding option as your answer.

Last month, a _____ **(A)** _____ in Instagram's search algorithm caused it to automatically recommend terms such as "fasting" and "appetite suppressants" to some people, including those recovering from eating disorders. Facebook, which owns Instagram, fixed it, but the _____ **(B)** _____ raised questions about the company's ability to create a safe online space for those who are most vulnerable. It alarmed a group of over 40 attorneys general in the US enough that they mentioned it in a letter to Facebook CEO Mark Zuckerberg as an instance of why the company's plan to create a version of Instagram for children below the age of 13 must be abandoned. Instagram currently does not allow children under 13 to use the platform and the new _____ **(C)** _____ have been planned so that those who want to can safely use it. But in the big, bad world of the internet, even spaces designed to be safe for children are not necessarily so. Take the case of Facebook's own Messenger Kids where a design flaw — which has since been fixed — allowed strangers to _____ **(D)** _____ group chats. And "stranger danger" is just one aspect of a dodgy and unnecessary product: Multiple studies have shown the ___ **(E)** _____ effect social networking platforms have on the mental health of users. Instagram, in particular, was flagged in a 2017 study by UK's Royal Society for Public Health as being the "worst" for young people's mental health, affecting sleep quality and leading to bullying and body image issues. The responsible thing for Facebook to do now is to make it harder for under-age users to lay their way onto the platform: In other words, stronger fencing and more _____ **(F)** _____. This can only happen if the company stops looking at children as another potential market and starts seeing them for what they are: Still-developing minds that are curious, adventurous and very vulnerable.

25) Which of the following is appropriate in the blank (A)

a. Perfection

b. Strength

c. Flak

d. Glitch

e. None of these

26) Which of the following is appropriate in the blank (B)

a. Lapse

b. Current

c. Valid

d. Improve

e. None of these

27) Which of the following is appropriate in the blank (C)

a. Source

b. Service

c. Product

d. Commencement

e. None of these

28) Which of the following is appropriate in the blank (D)

a. Augment

b. Usurp

c. Strain

d. Infiltrate

e. None of these

29) Which of the following is appropriate in the blank (E)

a. Deleterious

b. Beneficial

c. Advantageous

d. Manifold

e. None of these

30) Which of the following is appropriate in the blank (F)

a. Remedial

b. Vigilance

c. Descent

d. Apotheosis

e. None of these

Answer Key with Explanation

1) Answer: A

Three decades after **its** economy was liberalized, India remains a complex and challenging place to do business.

Usage of "it's" is incorrect.

"It's" is the short form of "It is".

But in the given sentence we need a possessive noun "its" to showcase the relationship between India and its economy.

2) Answer: D

The much-awaited vehicle scrappage policy announced by the Transport Ministry, coming after the move for a green tax on ageing and

polluting automobiles, **promises** economic benefit.

Here the subject "The much-awaited vehicle scrappage policy" which is a singular subject. Usage of gerund form is grammatically incorrect. The present verb in "s" form must be used. Promises is the correct verb.

3) Answer: B

Iran is not the only country **where** the US has sought to destabilise hostile governments through intensive intervention in domestic politics.

Relative pronouns "Where" should replace the word "there" in order to make the sentence error free. A relative pronoun is one which is used to refer to nouns mentioned previously.

4) Answer: C

Ambiverts can be good salespeople because they are able to listen to their clients and understand their needs and also have the energy to sell their firms' goods and services.

Article usage is wrong here.

We generally use Article "an" with a singular countable noun. But "Energy" is an uncountable noun.

5) Answer: E

The given sentence is error free.

America's main financial regulator looks poised to introduce rules forcing firms to reveal how climate change or efforts to fight it may affect their business.

6) Answer: B

Accolade – Approval, commendation, compliment

Pernicious – malicious, deleterious, harmful

Innocuous – innocent, safe, innoxious

7) Answer: D

The ambiguity (c) of situations that tend to be uncertain and unpredictable(b) can cause anxiety (a) in addition to other psychological (d) and physical problems in some populations.

8) Answer: A

Most meansgreatest in number or amount.

Many means a large number of people or things.

Here many studies have found that certain fears (e.g. animals, heights) are much more common than others (e.g. flowers, clouds).

9) Answer: A

Fear of heights, may be common to all mammals and developed during the Mesozoic period.

10) Answer: B

Fear is judged as rational or appropriate and irrational or inappropriate. An irrational fear is called a phobia.

Fear of the unknown or irrational fear is caused by **negative** thinking (worry) which arises from anxiety accompanied by a subjective sense of apprehension or dread.

11) Answer: A

Fear causes physiological changes and ultimately <u>behavioral</u> changes, such as mounting an aggressive response or fleeing the threat

12) Answer: D

Irrational fear shares a common neural pathway with other fears, a pathway that engages the nervous system to mobilize bodily resources in the face of danger or threat.

13) Answer C

Here the word "cognition" will fill the blank to make the sentence meaningful.

Cognition- Analytical skill, processing skill.

14) Answer: B

From the given highlighted words, the spelling of 'comission' is incorrect, instead it should be 'commission '.

15) Answer: D

From the given highlighted words, the spelling of 'devestation' is incorrect, instead it should be 'devastation'.

16) Answer: C

From the given highlighted words, the spelling of 'exploit' is incorrect, instead it should be 'exploit'.

17) Answer: D

From the given highlighted words, the spelling of 'contentiuos' is incorrect, instead it should be 'contentious'.

18) Answer: C

From the given highlighted words, the spelling of 'parsonnel' is incorrect, instead it should be 'personnel.

19) Answer: B

In the given highlighted phrase, "has prepared" will be replaced with "was prepared" because the given statement is in indirect narration, whose reporting verb, "delivered" is in past tense. Therefore, it will follow the reported speech in past tense only. Hence, option (b) is the most suitable answer choice.

20) Answer: D

Here, the most appropriate phrase to replace the given highlighted phrase will be "Should be regulated when it" because 'shall' is used to express certain rules or laws whereas 'should' is used to express personal opinion. Hence, option (d) is the most suitable answer choice.

21) Answer: C

In the given sentence, 'information' is followed by 'we had' which is an adjective clause. This makes 'information' a definite noun and must be preceded by 'the'. Hence, option (c) is the most suitable answer choice.

22) Answer: E

The given highlighted phrase is grammatically correct and does not require any improvements. Hence, option (e) is the most suitable answer choice.

23) Answer: A

In the given statement 'associated' has been used as a verb and must be qualified by an adverb (exclusively) instead of an adjective (exclusive). Hence, option (a) is the most suitable answer choice.

24) Answer: A

The highlighted part must be replaced with" strike a balance between" to make it a grammatically correct sentence.

Strike a balance between – to give the correct amount of importance or attention to two separate things.

25) Answer: D

(A) **Perfection: -** the state of being perfect or without fault

(B) **Strength: -**the quality of being physically strong; the amount of this quality that you have

(C) **Flak: -** criticism

(D) **Glitch: -** a sudden, usually temporary malfunction or fault of equipment.

26) Answer: A

(A) **Lapse: -**a period of time between two things that happen

(B) **Current: -** of the present time; happening now

(C) **Valid: -** based on what is logical or true; acceptable

(D) **Improve: -** to become or to make something better

27) Answer: C

(A) **Source: -** a place, person or thing where something comes or starts from or where something is obtained

(B) **Service: -**a business whose work involves doing something for customers but not producing goods; the work that such a service does

(C) **Product: -** the result of something

(D) **Commencement: -** Beginning, start

28) Answer: D

(A) **Augment: -** to increase the amount, value, size, etc. of something

(B) **Usurp: -** to take somebody's position and/or power without having the right to do this

(C) **Strain: -** Tension, shear

(D) **Infiltrate: -** to enter an organization, etc. secretly so that you can find out what it is doing.

29) Answer: A

(A) **Deleterious: -** causing harm or damage.

(B) **Beneficial: -** having a good or useful effect

(C) **Advantageous: -** that will help you or bring you a good result

(D) **Manifold: -** many; of many different types

30) Answer: B

(A) Remedial: - aimed at improving or correcting a situation, helping people who are slow at learning something

(B) Vigilance: - Alertness, caution

(C) Descent: - a movement down to a lower place

(D) Apotheosis: - the highest point in the development of something; a culmination or climax.

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Directions (1-5): In each of the following questions three sentences are given followed by five options. You are required to find out the sentence which is/are erroneous.

1)

I. The use of cannabis is not completely banned in the country as its medicine and scientific use is allowed under the law.

II. Upset on rejection of his loan application, a man allegedly set a bank on fire in Haveri district of Karnataka on Saturday.

III. The 14th round of India-China military corps commanders-level talks will be held on Jan 12 at Chushul-Moldo.

a. Only I
b. Only II
c. Both I and II
d. Both I and III
e. Both II and III

2)

I. In the state of Maharashtra, fewer than 10 lakh people, including frontliners and senior citizens, are eligible for the booster dose.

II. An Air India pushback tractor at the Mumbai airport caught fire on Monday.

III. Northern India is currently in the grip of a cold wave of snowfall and heavy rains.

a. Only I
b. Only III
c. Both I and III
d. Both I and II
e. Only II

3)

I. Tamil Nadu government release guidelines for Jallikattu events ahead of Pongal festival.

II. The guidelines allowed only 300 bull tamers to participate in the event and made negative Covid results mandatory.

III. The Tamil Nadu government has requested people to watching the event on television and avoid mass gathering amid rising Covid cases in the state.

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A. Only I

B. Only II

C. Both I and II

D. Both I and III

E. Both II and III

4)

I. Telangana government will intensify checks on border areas in a bid to curb rising Covid cases in the state.

II. The Supreme Court has agreed to hear the Dharam Sansad hate speech case where anti-Muslim speeches were allegedly delivered at a religion gathering of Hindus in Uttarakhand.

III. As many as 13 militant have been killed in seven encounters in the first nine days of 2022.

a. Only I

b. Only II

c. Both I and II

d. Both I and III

e. Both II and III

5)

I. A man was arrested in Madhya Pradesh on Sunday for falsely reporting a terror attack to Mumbai Police.

II. Sarbananda Sonowal announce that the AYUSH ministry has decided to establish health wellness centres in all northeastern states.

III. Prime Minister Narendra Modi announced that December 26 will be observed as "Veer Baal Diwas".

a. Only I

b. Only II

c. Both I and II

d. Both I and III

e. Both II and III

Directions (6-10): In each of the following questions four words have been highlighted in bold which may or may not be in their correct positions. You are required to interchange them in order to form a meaningful and coherent sentence. If all the words are correctly placed mark "E" as your answer.

6) The National Statistical Office's first advance **derail (a)** for economic output in the current financial year is an **optimistic (b)** forecast that flags some positive trends as well as areas of concern that have the potential to **estimates (c)** the growth **momentum (d)**.

a. dbca

b. acbd

c. cbad

d. cbda

e. No rearrangement required

7) The NSO has **projected (a)** real GDP for the 12 months ending March 2022 at ₹147.54 lakh-crore, a 9.2% **fury (b)** from the provisional estimate of ₹135.13 lakh-crore for the last fiscal year, when the full **expansion (c)** of the COVID-19 pandemic had caused output to **contract (d)** by 7.3%.

a. dbca

b. acbd

c. cbad

d. cbda

e. No rearrangement required

8) It is a matter of **considerable (a)** relief that the Supreme Court has allowed the **commencement (b)** of counselling for post-graduate medical admissions under the all-India quota at a time when the long delay has caused a **shortage (c)** of junior residents in the **midst (d)** of an ongoing public health crisis.

a. dbca

b. acbd

c. cbad

d. cbda

e. No rearrangement required

9) Delhi Police **recovered (a)** two fraudsters for creating fake partner IDs of Shadowfax company and **causing (b)** a loss to the tune of Rs 4 lakhs. Police also **nabbed (c)** two mobile phones and eight sim cards from their **possession (d)**.

A. dbca

B. acbd

C. cbad

D. cbda

E. No rearrangement required

10) In a bid to **expedite (a)** the farmers on the paddy procurement drive and to **sensitize (b)** the process, the Assam government will organize a special Gaon Sabha (Gram Sabha) across the state on January 16 and is aiming to **procure (c)**

10 lakh MT of **paddy (d)** from the farmers this year.

a. bcad

b. cbad

c. adcb

d. bacd

e. No rearrangement required

Directions (11-15): In each of the following questions a sentence has been given with a phrasal verb or group of words highlighted in it. You are required to find out whether the usage of the highlighted phrase is correct or not. If it is inappropriate to the context of the sentence, then replace it with the correct one from the given options.

11) Nearly a year after India **rolled over** the COVID-19 vaccination programme, it began administering a 'precaution dose' — scientifically called a third or booster dose.

a. Rolled off

b. Rolled out

c. Rolled up

d. Rolled back

e. No replacement required

12) Thieves **broke apart** an Urban Primary Health Care Centre in Hyderabad on Monday, January 11 and escaped with 24 vials of Covishield and 17 vials of Covaxin.

a. Broke down

b. Broke off

c. Broke into

d. Broke up

e. No replacement required

13) The incident of drowning children from Andhra Pradesh **came in light** when local residents spotted bicycles and clothes near the river bank and alerted the police.

a. came on light

b. came at light

c. came of light

d. came to light

e. No replacement required

14) As many as four girls were **buried for death** in a landslide in Haryana's Kangarka village on Monday evening.

a. buried to death

b. buried on death

c. buried at death

d. buried of death

e. No replacement required

15) The Air India cabin crew will hold talks with management over pending issues and have **called off** an indefinite strike from January 15 if the demands are not met.

a. called upon

b. called for

c. called in

d. called out

e. No replacement required

Directions (16-20): A sentence/paragraph is given below with two blanks in it. Following it a table with two columns is given with three words in each column. Identify which group of words from the columns will fill in the blanks making the sentence/paragraph grammatically and contextually correct.

16) The RBI remains committed to revive and sustain growth on a durable basis and continue to _____ the impact of Covid on the economy, while _____ that inflation remains within the target going forward," RBI Deputy Governor Michael Debabrata Patra said.

COLUMN I	COLUMN II
A. mitigate	D. insure
B. alleviate	E. ensuring
C. pacifying	F. exhorting

a. C-D

b. A-E & B-E

c. A-E & C-E

d. A-E & B-D

e. A-F

17) Due to incessant rain and water logging of fields during September- October 2021, crops were _____ damaged. Chief Minister had announced a relief package for crop damage soon after and teams were _____ to assess the extent of damage inflicted by the rain.

COLUMN I	COLUMN II
A. hardly	**D.** rehabilitated
B. extremely	**E.** consigned
C. severely	**F.** dispatched

a. A-E

b. C-F

c. B-E & C-F

d. B-D

e. B-E

18) An aircraft of the Indian Army's Officers' Training Academy in Gaya, with two trainee pilots on board, _____ on Friday shortly after_____, a senior official said.

COLUMN I	COLUMN II
A. crashed	**D.** lifting
B. took off	**E.** flopped
C. collapsed	**F.** takeoff

a. A-D

b. B-E

c. C-E

d. A-F

e. A-E

19) Cold day conditions are going to continue in most parts of central and northwest India as the India Meteorological Department (IMD) has _____the same in Madhya Pradesh, Uttar Pradesh, Punjab, Haryana, Chandigarh, Chhattisgarh and Rajasthan, among others, for the next three days. According to the latest bulletin by the Met department, there will be no _____ change in the minimum temperatures over northwest India till January 30.

COLUMN I	COLUMN II
A. predicting	**D.** drastic
B. forecasted	**E.** significant
C. prophesied	**F.** malicious

a. B-E

b. C-F

c. A-E

d. B-D

e. C-D

20) The Delhi Traffic Police has made _____ arrangements across crucial junctions in the city in view of the Beating Retreat ceremony, which will be _____ at Vijay Chowk on Saturday.

COLUMN I	COLUMN II
A. nebulous	**D.** held
B. elaborate	**E.** convened
C. flamboyant	**F.** organising

a. A-E

b. A-E & C-D

c. B-F

d. B-D & C-E

e. A-E, B-E & C-D

Answer Key with Explanation

1) Answer: C

From the given three statements, I and II both are grammatically incorrect.

Error in I- usage of **"medicine"** is incorrect, as we need an adjective form of **"medicine"** because of the rule of parallelism, thus **"medical"** is the correct word.

Error in II- Upset is followed by the prepositions **"over/about/by"** not **"on"**.

Thus, **option C** is the correct answer.

2) Answer: B

From the given three statements, III is grammatically incorrect.

Error in III- "Grip" is followed by the fixed preposition **"with"**, **Grip with** means **to deal with** (something, such as a problem). So **"of"** will be replaced by **"with"**.

Thus, **option B** is the correct answer.

3) Answer: D

From the given three statements, I and III both are grammatically incorrect.

Error in I- As the subject is singular in the sentence, we have to use the verb in **singular form (s/es)**. **"Releases"** will be used instead of **"release"**.

Error in III- According to the rule- the structure will be **(to+v1 or for+ving)**, **"Watch"** will be used instead of **"watching"**.

Thus, **option D** is the correct answer.

4) Answer: E

From the given three statements, II and III both are grammatically incorrect.

Error in II- an adjective always qualifies a noun, **"gathering"** is a noun and it is qualified by the adjective **"religious"** not **religion**.

Error in III- plural number is always followed by plural noun, **"militants"** will be used instead of **"militant"**.

Thus, **option E** is the correct answer.

5) Answer- B

From the given three statements, II is grammatically incorrect.

Error in II- As the sentence is given in the past tense, we must use **"announced"** in place of **"announce"**.

Thus, **option B** is the correct answer.

6) Answer: C

The words **"derail"** and **"estimates"** are not in their correct positions and fail to impart any meaning to the sentence, so we need to interchange them in order to form a meaningful sentence.

NSO's first advance **"estimates"** is the correct usage.

Derail means obstruct (a process) by diverting it from its intended course.

So, the rearrangement of words will be- **cbad**

Hence, **option C** is the correct answer.

7) Answer: B

The words "**expansion**" and "**fury**" are not in their correct positions and fail to impart any meaning to the sentence, so we need to interchange them in order to form a meaningful sentence.

Fury means fierce and violent, as the fierceness of the COVID-19 pandemic has caused output contraction by 7.3%.

So, the rearrangement of words will be- **acbd**

Hence, **option B** is the correct answer.

8) Answer: E

The sentence is already correct; hence no rearrangement is required.

9) Answer: C

The words "**nabbed**" and "**recovered**" are not in their correct positions and fail to impart any meaning to the sentence, so we need to interchange them in order to form a meaningful sentence.

So, the rearrangement of words will be- **cbad**

Nabbed means **to catch (someone) doing something wrong.** Delhi police nabbed two fraudsters and Police recovered two mobile phones and eight sim cards.

Hence, **option C** is the correct answer.

10) Answer: D

The words "**expedite**" and "**sensitize**" are not in their correct positions and fail to impart any meaning to the sentence, so we need to interchange them in order to form a meaningful sentence.

Expedite means make (an action or process) happen sooner or be accomplished more quickly. To speed up the process of the paddy procurement the Assam government will organize a special Gaon Sabha (Gram Sabha).

So, the rearrangement of words will be- **bacd**

Hence, **option C** is the correct answer.

11) Answer: B

The highlighted phrase "**rolled over**" is incorrect because it means **contrive or extend a particular financial arrangement.** So, the correct phrasal verb to be used is "**rolled out**" which means **officially launching or introducing a new product or service.**

In the above sentence, India has officially launched and introduced a 'precaution dose' scientifically called a third or booster dose.

Rolled up means to curl up tightly.

Rolled off means (of a product) issue from an assembly line or machine.

Hence, **option B** is the correct answer.

12) Answer: C

The highlighted phrase "**broke apart**" is incorrect because it means to disassemble, destroy. So, the correct phrasal verb to be used is "**broke into**" which means enter or open a place, vehicle, or container forcibly, especially for the purposes of theft.

In the above sentence, thieves robbed an Urban Primary Health Care Centre in Hyderabad.

Broke down- not functioning, due to mechanical failure/ to cry badly

Broke off- stop doing something, especially speaking

Broke up- the coming to an end of a business or personal relationship

Hence, **option C** is the correct answer.

13) Answer: D

The highlighted phrase **"came in light"** is incorrect. So, the grammatically correct phrasal verb to be used is "**came to light**" which means **to become known.**

Remaining options are incorrect.

Hence, **option D** is the correct answer.

14) Answer: A

The highlighted phrase **"buried for death"** is incorrect. So, the correct phrasal verb to be used is "**buried to death**". **Remaining options are incorrect.**

Hence, **option A** is the correct answer.

15) Answer: B

The highlighted phrase **"called off"** is incorrect because it means **to draw away**: **divert/cancel.** So, the correct phrasal verb to be used is "**called for**" which means **to publicly ask for something to happen/demanded.**

In the above sentence, Air India cabin crew will be on strike if the demands are not met over the pending issues.

Called upon means to ask formally for someone to do something

Called in means to enlist someone's aid or services.

Called Out means summoning someone to deal with an emergency or provide a service.

Hence, **option B** is the correct answer.

16) Answer: B

The context is about the RBI committed to recover growth and continue to lessen the impact of Covid on the economy, at the same time as ensuring that inflation will remain within the target.

In first blank, we need an infinitive following 'to' and a present participle after the conjunction 'while'. So, option B is the correct option.

17) Answer: C

The context is about the heavy rain and water logging during the months of September-October 2021. Due to this, crops were badly damaged. CM had announced the relief package and dispatched the teams to inspect the damage.

In the first blank, we need an adjective that shows the severity of damage. And in second blank, we need a verb denoting teams were sent for assessing the extent of damage. So, only option C has the pair of words that can suitably fill in the blanks.

Severely – extremely, seriously

Hardly – rarely, barely

Dispatch – send, consign, and remit

Rehabilitate – restore, reinstall

18) Answer: D

The context is about the crashing of an aircraft, after it took off from Gaya.

The accident has occurred in past, so we need 2nd form of verb in the first blank. The word 'collapsed' is correct but the word 'flopped' is incorrect as it means to drop or dangle, which is not suitable in the second blank. So, only option D has the pair of words that fill in the blanks.

19) Answer: A

The context is about the India Meteorological Department (IMD) that it has made predictions over Cold day conditions going to continue in most parts of central and northwest India and there will be no notable change in the minimum temperatures.

In the first blank, we need a past participle (v3) and an adjective in second blank denoting remarkable change in temperatures. Word in

column I (C) is correct but the word paired with it is incorrect. So, options B and E are eliminated. So, only option A is correct answer.

20) Answer: D

The context tells us about the arrangements made by the Delhi traffic Police across important crossroads in view of the Beating Retreat ceremony, which is going to be held at Vijay Chowk.

In first blank, we need an adjective and in the second blank, we need a verb. Only words B and C in column I fit the blank contextually and can be paired with words against D and E in column II. So, option D has the correct pair of word that can fill the blanks both grammatically and contextually.

Nebulous – vague, amorphous, shapeless

Elaborate – flamboyant, decorative

Score booster

Directions (1-7): The following passage has got a blank and a word that has been highlighted. Some questions based on the information are also given. You are required to read the same carefully and answer the questions that follow.

It's already 2022 and just like the life resolutions, it's another fascinating time for the readers to look out for what will trend this year. And it is natural to mention that with the pandemic and anticipated lockdowns still looming over humanity across the world, spending more time at home will certainly prompt more reading for the **aquaphiles**. While 2020 was all about e-books and online reading, 2021 saw a boom in audiobooks and individual podcasts. However, this year seems to be like going back to the roots

and picking up that one fiction with your favourite cuppa. There have been several researches in past that have proved that reading can help you keep calm and relieve stress. And many who haven't been used to staying nose deep in books picked up one, either online or audiobook or the one lying on the shelf for years. Looking at the reading trends in 2022, the authors have different opinions. For instance, Nitra Prakash, author of the books like Dear, I Hate You, Letters To Mira and In the Name of Love, opines that reading as a physical book will always be an irreplaceable feeling.

"I think we have realised the value of books. We are going back to the old norms. This is the same with online education as well. Despite online classes and materials, students insist on hard study material so reading on printed books is irreplaceable," says the author and Director of the Institute of Distance and Online Learning (IDOL) at Chandigarh University. On the other hand, Delhi-based author Maadhumita Mandal thinks that reading trends will follow a more hybrid model. "With the pandemic, people have tried all the modes of reading books and all have developed their preferences. Now the reading will be based on their choice. Readers will also consider money in terms of buying a book, so e-books will remain as a preferred reading and audiobooks are still in the developing stage. But children's books will be in physical format. Parents still want their kids to develop reading

habits so that will not change for some time now," says the author.

Ever since the pandemic started, various genres have persisted in the hands of the readers. From romance and fantasy to young adult, science fiction and pandemic, every genre found its place on people's shelves. Author and painter Era Tak feels that romance and science fiction will rule this year. "There is too much stress and people want to read something that transports them to some different place mentally and not add on to the stress so romance is always popular and will remain so in 2022 as well. Women on the other hand will still go for books that have strong feminist or women empowerment topics. Some readers will be drawn to books that are lighter or that otherwise allow them to forget about problems in the world while reading,". Contrary to Era's opinion, author Vickram E Diwan believes self-help books will not sell much. "Fiction is a means to escape and will emerge strongly. Romance, mystery, detective fiction, true crime, horror in fiction will be preferred. In non-fiction, it will be political biographies and scandals," says the author of Warlock: Valley of Death, which traces the roots of Indian tantrik activities that lead to the belief in _____ events.

1) Which of the following words will fill the blank given in the last sentence of the passage?

a) Earthly

b) Abstruse

c) Paranormal

d) Involuted

e) Mystique

2) Which of the following can be a suitable title for the passage?

a) World of books

b) Benefits of reading

c) Evolution of readers in the last few years

d) How's 2022 going to look for the literary world

e) Lockdown and the growth of audiobooks

3) What is the view of the author of the books Letters To Mira, In The Name Of Love etc.?

a) The audiobooks are here to stay and gain preference over hard copies

b) People will consider the cost of the books and prefer online books

c) Reading a hard copy paper book in our hands is an irreplaceable feeling

d) It will take another year for people to understand the value of books

e) Other than the given options

4) What is the logic of the author who has opined that reading would be following a hybrid model?

a) People have tried all the modes of reading

b) Reading will now be a matter of choice

c) Many readers will consider the money while buying books

d) Both (a) and (b)

e) All (a), (b) and (c)

5) Which of the following words will be correct in place of the word *'aquaphile'* as used in the passage?

a) Aquaphobe

b) Bibliophile

c) Selenophile

d) Xenophobe

e) The given word is correctly used

6) Why do the authors feel that 'Romance' and 'Fiction' will rule this year?

a) There is a lot of stress these days

b) People want to be in a different state of mind that relieves them

c) Romance is supposed to one such genre that takes people in a different zone mentally

d) All of the above

e) Not mentioned in the passage

7) Which of the following genres have not been mentioned in the passage?

a) Romance

b) Fiction

c) Philosophy

d) Political scandals

e) All have been mentioned

Directions (8-12): The following paragraph has five blanks which show that some words are missing. The options given in the questions will fill the blanks that complete the paragraph meaningfully. Choose the correct options

According to cyber-security company Surfshark's data sensitivity index, Uber is third on the list while Ola, the most popular ride-hailing app in India, comes sixth in the global data-hungriness _____(A)_____ (with a total of 18 data points collected). Indian bike-taxi aggregator Rapido, however, collects the _____(B)_____ amount of data in the ranking, said the report. It collects almost 10 times less data than the leading GrabTaxi app, and collects only its user's name, phone number and location to _____(C)_____ its services. Surfshark revealed that popular ride-hailing and taxi data-hungry apps are additionally using contact and payment information, user's content and other user data for third-party marketing purposes. The index researched data collection practises of the 30 most known ride-hailing apps from the Apple Store. Nine out of 30 analysed ride-hailing apps were found to be collected data for "third-party advertising." Ride-hailing apps, on average, are collecting 14 data points per user, the report _____(D)_____. GrabTaxi (south-eastern Asia) and Yandex Go (central Asia) claimed first and second place on the list. "Many people today are willing to trade privacy for _____(E)_____ and share their personal information in exchange for a service.

8) Which of the following will fill the blank labelled (A) as given in the passage above?

a) Surveyed

b) Ranking

c) Rank

d) List

e) None of the above

9) The word that fills the space given in (B) to complete the sentence meaningfully is?

a) Least

b) Most

c) Vast

d) Best

e) Only

10) Choose the word that fills the blank (C) as given in the passage above?

a) Fetch

b) Carry

c) Complete

d) Deliver

e) Reach

11) Which of the following options will fill the blank labelled (D) as given in the passage above?

a) Negates

b) Claimed

c) Share

d) Showing

e) None of the above

12) Which of the following options will fill the blank labelled (E) as given in the passage above?

a) Comfort

b) Benefiting

c) Discounts

d) Offers

e) None of the above

Answer Key with Explanation

1) Answer: (c)

The best hint in the given passage is the usage of the phrase 'tantric events' which clearly hints at the word '**paranormal**: things that are beyond the normal scientific understanding'

Earthly means relating to the earth or the human life

Abstruse and **Involuted** things are difficult to understand or complicated (Could have been the next best options in absence of paranormal)

Mystique is the power of someone to be able to fascinate or attract

These meanings do not fit and can be eliminated.

2) Answer: (d)

Options given above are all valid in general as all the mentioned aspects have been discussed in the passage but a title defines the main idea being discussed and we can see that the author has presented various opinions of the authors in relation to the year 2022 and the trend that is going to be popular in the word of books. (Reading the last few lines of the first paragraph we get a clue)

Therefore, the best option is (d).

3) Answer: (c)

Towards the end of the first paragraph and the first few lines of the second paragraph, we can find that the third option has been discussed at length referring to the author Nitra Prakash.

Therefore, the best option that describes what has been asked is (c).

4) Answer: (e)

The second paragraph mentions the opinion of the author Maadhumita Mandal who says that reading will follow a hybrid model as per her analysis.

All the points given in the options have been mentioned and hence, the best option to be marked as the answer is (e).

5) Answer: (b)

As the passage is talking about the lovers of books, we can clearly choose option (b) as the correct word over the others.

The words **'Bibliophile'** or **'Bibliomania'** are associated with the love for books and hence option (b) should be preferred.

'Aquaphobe' is someone who is afraid of water.

'Selenophile' is one who loves moon.

'Xenophobe' is a person who fears foreigners or those who are of different class as ours.

Therefore, the correct answer is (b).

6) Answer: (d)

The best is to go through the third paragraph as this idea has been discussed in detail and then the options will make it clear further.

Therefore, the best option is (d).

7) Answer: (c)

The option that has not directly been used in the passage is Philosophy as the author has discussed all the genres that will make it little less heavy for the readers.

Therefore, the best option is (c).

8) Answer: (b)

Since the line is talking about the positions of the riding companies, the word that should contextually fit is 'ranking'.

The other words are either grammatically or contextually incorrect.

Therefore, the best option is (b).

9) Answer: (a)

The line following the blank says 10 times less data which hints that the word that should be used as per the context is 'least' as most would go against the intended meaning.

Therefore, the best option is (a).

10) Answer: (d)

The correct usage would be 'deliver the services' which is better than most of the other options given above.

Therefore, eliminating all the other options, we can mark (d) as the answer.

11) Answer: (b)

We need to say; 'as per what the report said' so, the 'claimed' would be a better word in the given context. 'Share' and 'Showing' are of no use as they are grammatically misfits. Negates is both grammatically and contextually wrong.

Therefore, the best answer is (b).

12) Answer: (a)

As a simple rule, all the options that are almost similar in meaning will all together not be the answers. So, options (b), (c) and (d) are all eliminated.

Out of the remaining options, (b) is grammatically incorrect.

The first option however, is the correct answer as the 'trading privacy for comfort' makes sense.

Hence, the best answer option is (a).

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English Language

Directions (1-6): The passage given below has certain information given. Some questions have been framed on the same. You are required to read the same carefully and answer the questions that follow.

The agitation by those who have applied for various low-category jobs in the Indian Railways in Bihar and Uttar Pradesh is a _____, especially in these two most populous states. The railway recruitment boards in Bihar, Uttar Pradesh and Rajasthan had advertised for a total of 35,000 posts ranging from junior clerk, train assistant, guard, time-keeper to station master with the minimum qualification of 10 plus 2. As many as 1.25 crore applications were received for these posts, mostly from these three states. They had to undergo a common entrance test. About seven lakh applications were shortlisted for the second round of separate tests for various categories.

Since some persons would have been considered eligible for multiple posts, the number of persons shortlisted was about 3.8 lakh for 35,000 seats. This means that nearly 1.21 crore candidates were rejected. A bulk of them are from Uttar Pradesh and Bihar and they are the ones who went on an agitation. They have a point that the recruitment process adopted by the Railways was not scientific. However, the violence the candidates resorted to while protesting against the inequities in the process is not at all justifiable. How can those who want a railway job put railway coaches to the torch and justify their action? It is for the railway authorities to decide how best they can wriggle out of the jam they themselves created through their thoughtless action. Having said that, it must also be conceded that they were in a tough situation. A total of 1.25 crore applications for 35,000 jobs is too large a figure for any recruiting agency. There can be no fool-proof system of recruitment when there are so many claimants. There is an element of luck, for it cannot be said with certainty that the seven lakh applications chosen after the first round of examination are more competent than the 1.21 crore rejected.

While the imbroglio will, hopefully, be tackled, the Central and state governments have a major problem to handle. The fact of the matter is that today the number of employed persons in the country is fewer than was the case five years ago. In other words, the employment opportunities have been shrinking with each passing year. What has accentuated the problem is the Covid pandemic that has rendered millions of people jobless. The economy has been showing signs of recovery and that is when Omicron and the resultant near-lockdown condition pushed more and more people into joblessness. What's worse, the government does not even have the data of those employed in various sectors. Over 90 per cent of the

employed are in the unorganised sector, with virtually no social security benefits.

When millions of migrant labourers left their hearth and home in cities and towns following the first lockdown, people realised the enormity of the problem. Even today, nobody knows for sure how many of them returned to their workplaces and whether they had their jobs waiting for them. The Mahatma Gandhi National Rural Employment Guarantee Scheme would have helped in providing jobs — though only for 100 days a year — to some of the needy but the allocation for the same has been cut down. The scheme has disappointed at least 19 million eligible persons who would have been its beneficiaries. Even as the government vacillates, the number of the unemployed has been growing by leaps and bounds. Small wonder that nobody talks any longer about India's demographic dividend. It is not a dividend but a disability.

1) The term; 'there is an element of luck' has been used to explain which of the following contentions?

a. The number of vacancies announced was far more than the number applications received

b. The candidates selected were not necessarily better than the candidates who got rejected

c. Railway Board was not hoping to get such a lot of applications for the junior level posts

d. The seven lakh candidates who got shortlisted in the first round included some who qualified for more than one posts

e. Both (a) and (d)

2) Which of the following can be inferred based on the details given in the passage?

a. The people employed in the organised sector get social security benefits

b. The organised sector does not find it fruitful to employ many people as it is able to pay less that ways

c. Many skilled workers want to earn independently and hence stay away from the organised sector

d. Both (b) and (c)

e. There has been a significant decrease in the number of people employed in the unorganised sector

3) Which of the following phrases would best fill the blank to complete the statement in the passage above?

a. chaos that is being created due to the inconsistent employment

b. picture that defines the standard of employment in the country

c. reflection of the general state of unemployment in the country

d. hint that the unemployment policies in our country are superfluous

e. indicate that there is a need of more job creation in the private sector

4) Which of the following has/have been given as the reason/s for aggravating the unemployment problem?

i. Unemployment has been exacerbating since the last five years

ii. The Central and the State governments are having major problems in handling the issue

iii. Many people lost their jobs during the pandemic and the lockdowns

a. Only (i)

b. Both (i) and (ii)

c. Only (ii)

d. Only (iii)

e. Both (ii) and (iii)

5) What was the major revelation of the first lockdown?

a. That the jobs in the economy have been hit hard

b. Most of the employees survive on their jobs and do not have enough savings

c. The migrants' exodus showed how serious the unemployment issue really is

d. The unorganised sector of the economy is hit hard by the frequent lockdowns

e. All of the above

6) What is being conveyed through the concluding lines of the passage?

a. The economic growth potential of our country is declining with a greater number of people being unemployed

b. The population of our country is the biggest advantage that can be leveraged for economic benefits

c. India being the second most populous country in the world reaps numerous economic benefits

d. Manufacturing sector of India is earning dividends due to the great workforce that we have

e. None of the above

Directions (7-10): In each question given below are two words that have been highlighted. These words might need to be replaced with words from the options given below to make the sentences meaningful. Read the same carefully and choose the best option as your answer

7) Today, Israel's Embassy and two Consulates in India together are **between** our largest **democratic** missions in the whole world.

a. Among, national

b. Along, security

c. In, national

d. Among, diplomatic

e. No replacement needed

8) There has been a **lateral** shift in aviation over the last few decades, and new business models have **evolved**.

a. Shakeable, risen

b. Tectonic, emerged

c. Significant, cascaded

d. Major, No change

e. No replacement needed

9) With the world **renouncing** a hybrid work and study style, a lot of millennials will look to **set** to

their base city but will require better living spaces to ensure that WFH runs smoothly as well.

a. Going, change

b. Accepting, settle

c. Embracing, relocate

d. No change, displace

e. No replacement needed

10) Disturbingly, there is widespread **surveillance** of journalists who ask difficult questions of the government, media reports reveal.

a. Surprisingly, eyeing

b. No change, pervading

c. Importantly, stalking

d. Specifically, No change

e. No replacement needed

Answer Key with Explanation

1) Answer: B

Refer to the lines from the second paragraph given below to understand the context in which the phrase has been used in the passage:

A total of 1.25 crore applications for 35,000 jobs is too large a figure for any recruiting agency. **There can be no fool-proof system** *of recruitment when there are so many claimants.* **There is an element of luck,** *for it cannot be said with certainty that the seven lakh applications chosen after the first round of examination are more competent than the 1.21 crore rejected.*

In short, the candidates who got rejected were not worth it is not something that can be deduced from the same.

Therefore, the best option is (b).

2) Answer: A

The lines from the third paragraph given below can be taken as a reference:

What's worse, the government does not even have the data of those employed in various sectors. Over 90 per cent of the employed are in the **unorganised sector,** *with virtually* **no social security benefits.**

As the lines specifically talk about no benefits for the unorganised sector, we can infer that these benefits can be found in the organised sector.

The other options cannot be completely inferred as they are a bit general.

Therefore, the best option is (a).

3) Answer: B

The passage describes the ruckus that was created due to the NTPC examination. This chaos shows the desperation in the candidates for jobs which indirectly tells us how the job market has been suffering.

Options (a), (b) and (d) are vague and can be straight eliminated.

Between options (c) and (e), the former will be a better completion as the state of unemployment is being shown and not just the private sector being discussed.

Therefore, the best option is (c).

4) Answer: D

Statement (i) is only repeating what has already been given in the question.

Statement (ii) is mentioned in the passage but that has been given as the reason for why the problem has been persisting since long.

Statement (iii) however, provides the most accurate reason of the worsening state of the already existing issue of unemployment and hence, option (d) is the correct option.

5) Answer: C

The first few lines of the last paragraph continue the idea that is being discussed in the previous paragraph by adding to it that the problem of employment is serious and it came to light with the migrant workers leaving their homes for survival during the lockdown as they were left helpless without their incomes and wouldn't have been able to sustain in the cities.

We can eliminate options based on this basic premise and mark the third option as our answer.

6) Answer: A

The concluding lines of the passage say that the demographic dividend has now turned into a liability. That can be understood to have been said because of the current state of unemployment in the country.

Demographic dividend can be defined as the economic opportunities that the population of our country brings with itself. Now, with more people losing their jobs the asset is turning into a liability.

So, the best option that explains the idea is (a).

7) Answer: D

The given sentence discusses the relation between India and Israel w.r.t to the two missions being described as the largest missions in the world.

Two missions out of all others should use the word 'among' and not 'between'. Also, between two countries the relations are termed as being 'diplomatic' and not democratic.

So, the pair of words can be found in option (d).

8) Answer: B

'Tectonic shift' refers to a major or a huge change. So, the best word that fits in place of the word 'lateral' is 'tectonic'.

Also, emerged means come to light which will be better in place of evolved.

Therefore, the best option is (b).

9) Answer: C

The sentence is not about 'renouncing: giving up' the new hybrid work culture rather to accept or embrace the new work culture. So, the options other than (b) and (c) can be eliminated.

Out of the remaining options, (c) will be the best option as the two words in the same will make the sentence coherent and meaningful.

Hence, the best option is (c).

10) Answer: E

The best option that fits the given sentence is the last one as the given sentence is correct as it is.

So, the best option is (e).