BYJU'S EXAM PREP

IBPS RRB Clerk Prelims 2023 Memory Based Question Paper, 12th Aug, All Shifts Download PDF (In English)

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1.In 120 litre mixture of milk and water the ratio of milk and water is 8 : 7. 30 litre of mixture is taken out and after that 18 litre water is added to the mixture. What is the final ratio of milk and water in the mixture?
A. 8 : 9
B. 2 : 3
C. 4 : 5
D. 5 : 6
E. 4 : 7

2.A, B and C started a business in partnership with the investment of Rs. 5000, Rs. 5500 and Rs. 3500 respectively. If the total profit at the end of the year is Rs. 9800, find the difference between the profit shares of A and C
A. Rs. 1050
B. Rs. 1250
C. Rs. 750
D. Rs. 960
E. None of these

3.A sum of Rs. 3280 invested at simple interest gives an interest of Rs. 1640. If the numerical value of rate is twice the time, find the rate of interest per annum.
A. 7.5%
B. 10%
C. 12%
D. 15%
E. 6%

4.A and B together do $\frac{8}{15}$ of work in 5 days. B does the remaining work in 7 days. In how many days A alone can do the work?
A. 16 days
B. 30 days
C. 18 days
D. 21 days
E. 25 days

5.The side of a square is L cm. The radius of a circle is 7 cm and the ratio of circumference of circle to the perimeter of square is 11 : 4. What is the area of the square?
A. 9 cm^2
B. 16 cm^2
C. 36 cm^2
D. 25 cm^2
E. 64 cm^2

6.A person travels at a speed of 34 km/h for 8 hours and at speed of 69 km/h for 2 hours. What is the average speed for the entire journey?
A. 39 km/h B. 45 km/h
C. 41 km/h D. 36 km/h
E. None of these

7.A sum of Rs. 75000 invested in a bank at simple interest a rate of 12.5% per annum. In how many years the sum invested will be doubled?
A. 12 B. 5
C. 10 D. 8
E. 6

Direction: What should come in place of the question mark (?) in the following number series?

8. 31, 40, 40.25, 49.25, 49.5, ?
A. 58.5
B. 61.25
C. 56.5
D. 72
E. 54

9.7, 9, 20, 62, 250, ?
A. 742
B. 916
C. 1309
D. 1252
E. 1057

10.106, 125, 148, 177, 208, ?
A. 228
B. 245
C. 269
D. 303
E. 225

Direction: Study the following information carefully and answer the question:

The table given below shows the number of laptops, mobiles and cameras sold by a shop in three months, January, February and March.

Item	January	February	March
Laptop	112	87	92
Mobile	93	115	149
Camera	126	74	80

11. The number of laptops sold in March is what percent of the number of mobiles sold in February?
A. 60%
B. 120%
C. 90%
D. 75%
E. 80%

12.What is the average number of mobiles sold in January, February and March?
A. 103
B. 131
C. 127
D. 119
E. None of these

13.What is the ratio of number of laptops sold in January to the number of cameras sold in March?
A. 4 : 3
B. 13 : 10
C. 7 : 5
D. 8 : 7
E. 5 : 3

14.What is the difference between the total number of cameras and the total number of mobiles sold in the given three months?
A. 77
B. 53
C. 67
D. 81
E. 73

15.If the ratio of number of cameras sold in January to the number of Laptops sold in April is 6 : 5, find the number of laptop sold in April.
A. 135
B. 120
C. 95
D. 105
E. None of these

Direction: In the following number series, only one number is wrong. Find out the wrong number.
16. 118, 143, 179, 228, 292, 402
A. 402
B. 118
C. 143
D. 228
E. 179

17.972, 324, 108, 33, 12, 4
A. 108
B. 4
C. 33
D. 324
E. 12

18.253, 265, 289, 337, 433, 639
A. 253
B. 639
C. 433
D. 265
E. 289

Direction: What should come in place of the question mark '?' in the following question?
19. $17^2 + \sqrt{529} - 197 = ?$
A. 135
B. 229
C. 93
D. 115
E. 151

20.$213 + 407 \div 11 - 13^2 = ?^2$
A. 8
B. 9
C. 6
D. 11
E. 13

21.$798 \div 19 \div 14 + 63 = ?$
A. 16
B. 72
C. 66
D. 8
E. 83

22.$9^3 - 26^2 = ? \div \sqrt{81}$
A. 509
B. 693
C. 573
D. 477
E. 375

23.$\sqrt{39\% \text{ of } 600 + ?} = 18$
A. 112
B. 68
C. 74
D. 104
E. 90

24.364 × $\frac{2}{7}$ + 845 ÷ 13 = ?^{2}

A. 81
B. 12
C. 64
D. 9
E. 13

25.60% of 225 − ? = 55% of 180

A. 70 B. 65
C. 14 D. 36
E. 48

Direction: Study the following data carefully and answer the questions accordingly.

There are seven people i.e., A, B, C, D, E, F and G of a company and all of them are working on different designations i.e., CMD, MD, CEO, COO, Manager (MG), Deputy Manager (DM) and Associate Manager (AM) but not necessarily in the same order. The CMD holds the highest rank, followed by the MD in a just junior role, and this hierarchy continues down to the AM, which is the most junior position.

Only two people are junior than G. There is only one rank between A and G. Number of ranks between A and the one who is COO is the same as the number of ranks between B and the one who is DM. Number of people senior than B is one more than the number of people junior than E. F is not COO. Only one rank between F and C. F is junior than C.

26. How many people are junior than C?

A. Three
B. One
C. None
D. Two
E. More than three

27.Number of people are junior than G is same as number of people senior than __.

A. D
B. E
C. A
D. C
E. None of these

28.How many ranks are there between A and B?

A. One
B. None
C. Two
D. Three
E. More than three

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

A. MD - D
B. COO - A
C. AM - F
D. MG - B
E. CEO - E

30.Who amongst the following is the DM?
A. C
B. A
C. F
D. B
E. None of these

Direction: Study the information carefully and answer the following questions.
Eight people i.e. P, Q, R, S, T, U, V, and W sit at a square-shaped table. Four people sit at the four corners of the table and face inside the table. Four people sit in the middle of the four sides and face outside the table. V sits opposite to W. P sits third to the right of W. Q sits to the immediate left of T who sits at the corner. Q sits adjacent to U. R does not sit at the corner of the table.

31. How many people sit between T and R when counted from the left of R?
A. Three
B. One
C. None
D. More than three
E. Two

32.Who sits third to the left of P?
A. U
B. Q
C. W
D. S
E. None of these

33.Four of the following five are alike in a certain way and hence form a group. Which amongst the following does not belong to that group?
A. P
B. W
C. T
D. U
E. S

34.What is the position of W with respect to Q?
A. Second to the left
B. Third to the left
C. Second to the right
D. Immediate left
E. None of these

35.Who sits second to the right of the one who sits opposite to U?
A. S B. R
C. T D. W
E. None of these

Direction: Study the following information carefully and answer the questions:
Seven boxes i.e. P, Q, R, S, T, U, and V are kept one above the other in a stack. Two boxes are placed between Box V and Box U. One box is placed between Box V and Box P. Box P is placed above Box V. Three boxes are placed between Box P and Box T. Box T is placed below Box P. Box R is placed just above Box T. Three boxes are placed between Box R and Box S.

36. How many boxes are placed between Box T and Box U?
A. Three
B. One
C. None
D. Two
E. Four

37.Number of boxes placed above T is the same as the number of boxes placed below ___.
A. S
B. V
C. P
D. Q
E. None of these

38.How many boxes are placed below Box Q?
A. Two
B. One
C. None
D. Four
E. Three

39.Which box is placed just above R?
A. T
B. V
C. Q
D. P
E. None of these

40.Which amongst the following boxes is placed below Box R?
A. S B. Q
C. V D. U
E. P

Direction: In the following questions, some statements and some conclusions are given. Considering all the statements to be true, decide the conclusions which logically follow. Study the data carefully and answer the questions accordingly.

41. **Statements:**
All Call is Map
Only a few Map is Seat
Only a few Seat is Pole
Conclusions:
I. Some Call being seat is a possibility
II. All Pole is Map
A. Only I follows
B. Only II follows
C. Either I or II follows
D. Neither I nor II follows
E. Both I and II follow

42. **Statements:**
All Time is Van
No Time is Point
Some Point is Line
Conclusions:
I. Some Van is not Point
II. Some Line is not Van
A. Only I follows
B. Only II follows
C. Either I or II follows
D. Neither I nor II follows
E. Both I and II follow

43. **Statements:**
Some Cap is Box
All Box is Food
Only a few Food is Tail
Conclusions:
I. No Cap is Tail
II. All Tail being Box is a possibility
A. Only I follows
B. Only II follows
C. Either I or II follows
D. Neither I nor II follows
E. Both I and II follow

44. **Statements:**
No Copy is Rank
Some Rank is Fill
All Fill is Shape
Conclusions:
I. Some Copy is not Fill
II. Some Shape is not Rank
A. Only I follows
B. Only II follows
C. Either I or II follows
D. Neither I nor II follows
E. Both I and II follow

45. **Statements:**
No Date is Line
Only a few Bold is Line
All Tool is Line
Conclusions:
I. Some Bold is not Line
II. Some Tool is not Date
A. Only I follows
B. Only II follows
C. Either I or II follows
D. Neither I nor II follows
E. Both I and II follow

Direction: In the following questions assuming the given statement to be true, find which of the conclusion(s) among given conclusions is/are definitely true, and then give your answers accordingly.

46. **Statements:**
T = F ≥ D > E; B > G ≥ T; U > H ≥ N ≤ B
Conclusions:
I. H > T
II. E < B
A. Only I follows
B. Only II follows
C. Either I or II follows
D. Neither I nor II follows
E. Both I and II follow

47. **Statements:**
Q > W ≥ E < R = D ≥ S ≥ X
Conclusions:
I. E ≥ X
II. R < Q
A. Only I follows
B. Only II follows
C. Either I or II follows
D. Neither I nor II follows
E. Both I and II follow

48. **Statements:**
T ≥ G = B; D = C > X > Z; B > V ≤ F ≤ D
Conclusions:
I. T ≤ D
II. C ≥ V

A. Only I follows
B. Only II follows
C. Either I or II follows
D. Neither I nor II follows
E. Both I and II follow

49. **Statements:**
X ≥ C > H ≥ K; T < R ≤ E = X
Conclusions:
I. X > T
II. E > K
A. Only I follows
B. Only II follows
C. Either I or II follows
D. Neither I nor II follows
E. Both I and II follow

50.How many such pairs of letters are there in the word **ANCHORED** each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical series?
A. One B. None
C. Three D. Four
E. More than four

Direction: Study the data carefully and answer the questions accordingly.
There are eight members in a three generation family in which three are married couples. S is the father-in-law of V. R is the grandmother of Q, whose father is not T. U is the daughter and the only child of P, who is the son of S. R is the mother of T, who is married to W.

51.What is the relation of W with respect to P?
A. Brother
B. Sister-in-law
C. Mother
D. Brother-in-law
E. None of these

52.What is the relation V with respect to S?
A. Daughter-in-law
B. Daughter
C. Granddaughter
D. Sister-in-law
E. None of these

53.Who amongst the following could be the grandson of R?
A. U
B. Q
C. T
D. P
E. V

Direction: Study the following letter-number-symbol sequence and answer the questions following it.
3 Ω % 5 @ # ∞ © 2 8 $ 4 ¥ 7 ∑ β & 9 1 € 6

54. How many symbols are there which are immediately preceded by an even number and immediately followed by an odd number?
A. One
B. Three
C. More than three
D. None
E. Two

55.Which of the following elements is 11th to the right of the one which is 6th from the left end?
A. @
B. 8
C. &
D. 9
E. None of the above

56.How many symbols are there between 4th element from left end and 6th element from right end?
A. Seven
B. Three
C. Nine
D. Six
E. None of the above

57.How many symbols are there which are immediately preceded by an odd number and immediately followed by a symbol?
A. Two
B. Four
C. One
D. Three
E. None of the above

58.Which of the following elements is 8th to the left of the one which is 14th from the left end?
A. $
B. 8
C. 2
D. #
E. None of the above

ANSWERS

1. Ans. C.
Quantity of milk left after removing 30 litre of mixture
$= \frac{8}{15} \times 120 - \frac{8}{15} \times 30 = 64 - 16 = 48$ litres
Quantity of water left after removing 30 litre of mixture
$= \frac{7}{15} \times 120 - \frac{7}{15} \times 30 = 56 - 14 = 42$ litres
Required ratio = 48 : (42 + 18) = 4 : 5

2. Ans. A.
Ratio of profit shares = 5000 × 12 : 5500 × 12 : 3500 × 12
= 10 : 11 : 7
Required difference = $\frac{10-7}{10+11+7} \times 9800$ = Rs. 1050

3. Ans. B.
Let the time be t years.
So, rate = 2t%
$\frac{3280 \times t \times 2t}{100} = 1680$
$\Rightarrow t^2 = 25$
$\Rightarrow t = 5$
Rate = (5 × 2)% = 10%

4. Ans. E.
Work done by B in 7 days = $1 - \frac{8}{15}$
$= \frac{7}{15}$
So, work done by B in 5 days = $\frac{5}{15}$
Work done by A in 5 days = $\frac{8}{15} - \frac{5}{15} = \frac{3}{15} = \frac{1}{5}$
Time required by A to complete the work alone = 5 × 5 = 25 days

5. Ans. B.
Circumference of circle = $2 \times \frac{22}{7} \times 7$ = 44 cm
Perimeter of square = $\frac{44}{11} \times 4$ = 16 cm
Side of square = 4 cm
Area of square = 4^2 = 16 cm^2

6. Ans. C.
Average speed = $\frac{\text{Total distance}}{\text{Total Time}}$
Total distance = 34 × 8 + 69 × 2 = 410 km
Total time = 8 + 2 = 10 hours
Average speed = $\frac{410}{10}$ = 41 km/h

7. Ans. D.
Let the number of years be t.
$75000 \times 2 - 75000 = \frac{75000 \times 12.5 \times t}{100}$
$\Rightarrow 75000 = 9375t$
$\Rightarrow t = \frac{75000}{9375} = 8$
Short trick:
Percentage increase in = 100%
Required time = $\frac{100}{12.5}$ = 8 years

8. Ans. A.
The pattern of the series is:
31 + 9 = 40
40 + 0.25 = 40.25
40.25 + 9 = 49.25

49.25 + 0.25 = 49.5
49.5 + 9 = 58.5
Hence, the missing number is 58.5.
9. Ans. D.
The pattern of the series is:
7 × 1 + 2 = 9
9 × 2 + 2 = 20
20 × 3 + 2 = 62
62 × 4 + 2 = 250
250 × 5 + 2 = 1252
Hence, the missing number is 1252.
10. Ans. B.
The pattern of the series is:
106 + 19 = 125
125 + 23 = 148
148 + 29 = 177
177 + 31 = 208
208 + 37 = 245
Hence, the missing number is 245.
11. Ans. E.
Required percentage = $\frac{92}{115} \times 100$ = 80%
12. Ans. D.
Total number of mobiles sold in given three months = 93 + 115 + 149 = 357
Required average = $\frac{357}{3}$ = 119
13. Ans. C.
Required ratio = 112 : 80 = 7 : 5
14. Ans. A.
Total number of mobiles sold in given three months = 93 + 115 + 149 = 357
Total number of cameras sold in given three months = 126 + 74 + 80 = 280
Required difference = 357 – 280 = 77
15. Ans. D.
Number of laptops sold in April = $\frac{126}{6} \times 5$ = 105
16. Ans. A.
The pattern of the series is:
118 + 5^2 = 143
143 + 6^2 = 179
179 + 7^2 = 228
228 + 8^2 = 292
292 + 9^2 = 373
Hence, the wrong number is 402.
17. Ans. C.
The pattern of the series is:
972 ÷ 3 = 324
324 ÷ 3 = 108
108 ÷ 3 = 36
36 ÷ 3 = 12
12 ÷ 3 = 4
Hence, the wrong number is 33.
18. Ans. B.
The pattern of the series is:
253 + 12 = 265
265 + 24 = 289
289 + 48 = 337
337 + 96 = 433
433 + 192 = 625
Hence, the wrong number is 639.
19. Ans. D.
? = 17^2 + $\sqrt{523}$ – 197
= 289 + 23 – 197
= 312 – 197
= 115
20. Ans. B.
$?^2$ = 213 + 407 ÷ 11 – 13^2
⇒ $?^2$ = 213 + 37 – 169
⇒ $?^2$ = 250 – 169

⇒ $?^2 = 81$

⇒ $?^2 = 9$

21. Ans. C.

? = 798 ÷ 19 ÷ 14 + 63

$= \frac{798}{19 \times 14} + 63$

= 3 + 63

= 66

22. Ans. D.

$9^3 - 26^2 = ? \div \sqrt{81}$

⇒ 729 – 676 = ? ÷ 9

⇒ 53 = ? ÷ 9

⇒ ? = 53 × 9 = 477

23. Ans. E.

$\sqrt{39\% \text{ of } 600 + ?} = 18$

$\Rightarrow \sqrt{39 \times 6 + ?} = 18$

$\Rightarrow \sqrt{234 + ?} = 18$

⇒ $234 + ? = 18^2 = 324$

⇒ ? = 324 – 234 = 90

24. Ans. E.

$?^2 = 364 \times \frac{2}{7} + 845 \div 13$

⇒ $?^2 = 104 + 65$

⇒ $?^2 = 169$

⇒ ? = 13

25. Ans. D.

60% of 225 – ? = 55% of 180

$\Rightarrow \frac{60}{100} \times 225 - ? = \frac{55}{100} \times 180$

⇒ 135 – ? = 99

⇒ ? = 135 – 99 = 36

26. Ans. A.

Ranks	People
CMD	D
MD	E
CEO	A
COO	C
MG	G
DM	F
AM	B

27. Ans. C.

Ranks	People
CMD	D
MD	E
CEO	A
COO	C
MG	G
DM	F
AM	B

28. Ans. D.

Ranks	People
CMD	D
MD	E
CEO	A
COO	C
MG	G
DM	F
AM	B

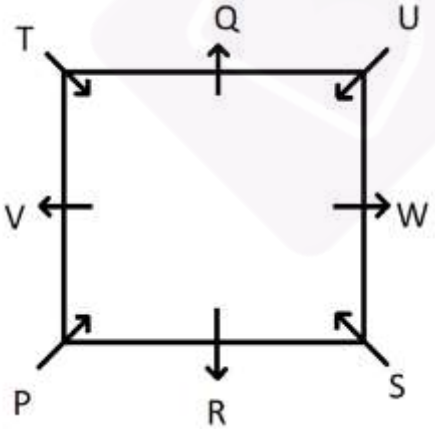
29. Ans. D.

Ranks	People
CMD	D
MD	E
CEO	A
COO	C
MG	G
DM	F
AM	B

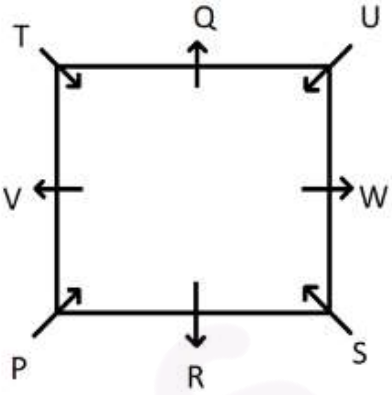
30. Ans. C.

Ranks	People
CMD	D
MD	E
CEO	A
COO	C
MG	G
DM	F
AM	B

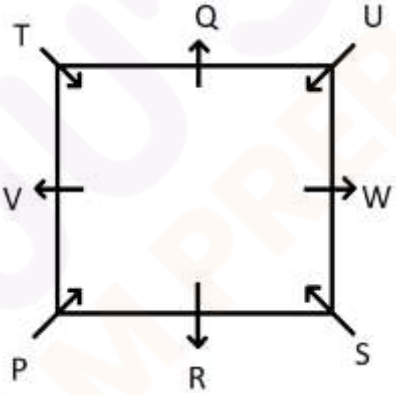
31. Ans. D.



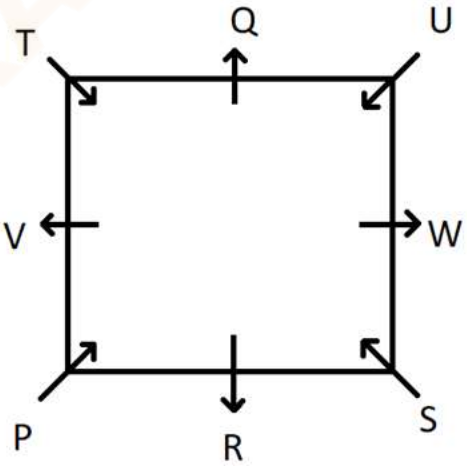
32. Ans. B.



33. Ans. B.



34. Ans. C.



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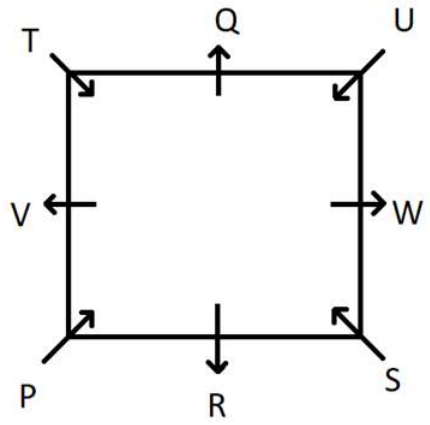
35. Ans. A.



36. Ans. C.

S
P
Q
V
R
T
U

37. Ans. C.

S
P
Q
V
R
T
U

38. Ans. D.

S
P
Q
V
R
T
U

39. Ans. B.

S
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U

40. Ans. D.

S
P
Q
V
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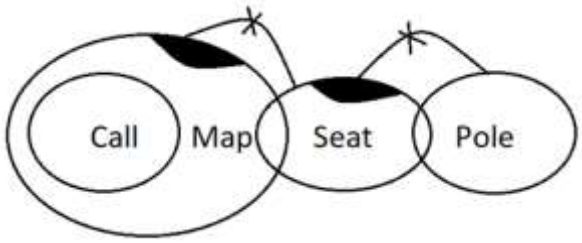
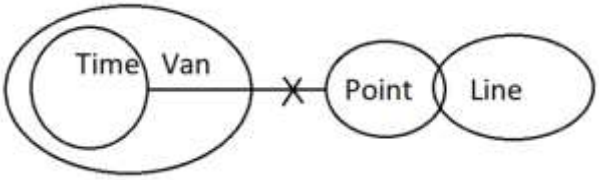
T
U

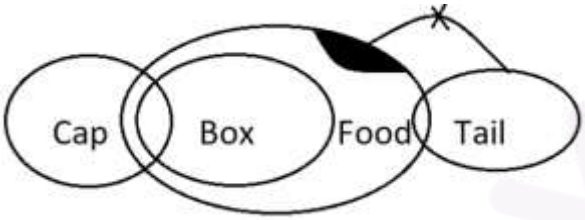
41. Ans. A.



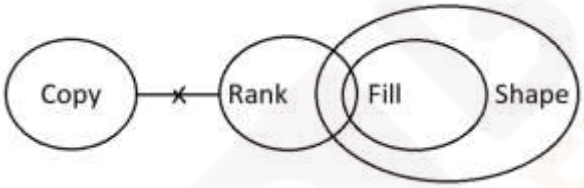
42. Ans. A.



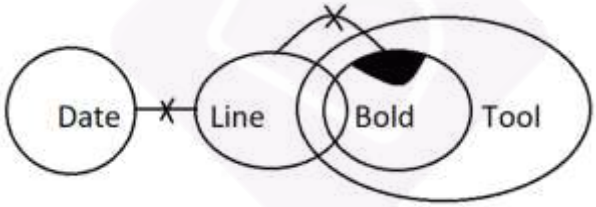
43. Ans. B.



44. Ans. D.



45. Ans. E.



46. Ans. B.

U > H ≥ N ≤ B > G ≥ T = F ≥ D > E

Conclusions:

I. H > T false as H ≥ N ≤ B > G ≥ T

II. E < B true as B > G ≥ T = F ≥ D > E

47. Ans. D.

Q > W ≥ E < R = D ≥ S ≥ X

Conclusions:

I. E ≥ X false as E < R = D ≥ S ≥ X

II. R < Q false as Q > W ≥ E < R

48. Ans. B.

T ≥ G = B > V ≤ F ≤ D = C > X > Z

Conclusions:

I. T ≤ D false as T ≥ G = B > V ≤ F ≤ D

II. C ≥ V true as V ≤ F ≤ D = C

49. Ans. E.

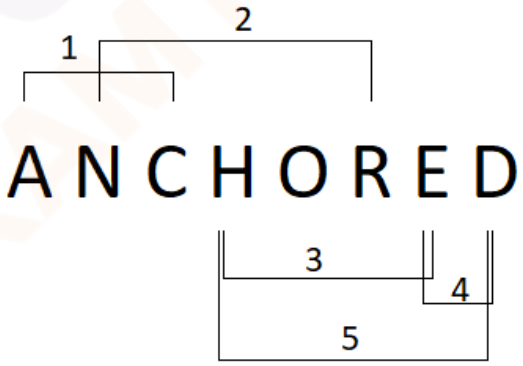
T < R ≤ E = X ≥ C > H ≥ K

Conclusions:

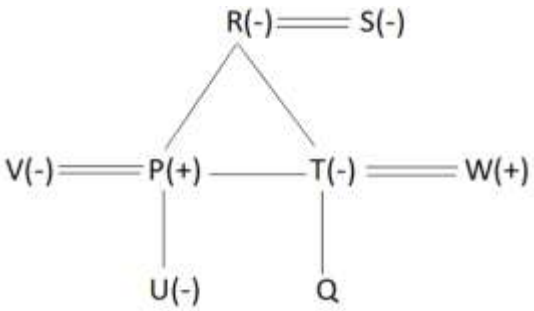
I. X > T true as T < R ≤ E = X

II. E > K true as E = X ≥ C > H ≥ K

50. Ans. E.



51. Ans. D.



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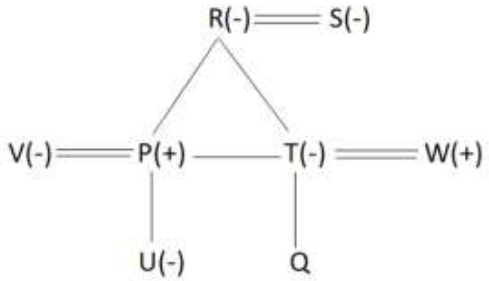
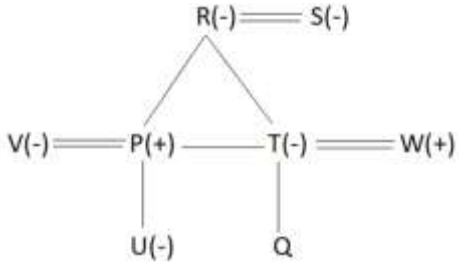
52. Ans. A.



53. Ans. B.



54. Ans. A.

3 Ω % 5 @ # ∞ © 2 8 $ **4 ¥ 7** Σ β & 9 1 € 6

Only one pair.

55. Ans. C.

3 Ω % 5 @ # ∞ © 2 8 $ 4 ¥ 7 Σ β & 9 1 € 6

is 6th from left and & is 11th right of #.

56. Ans. A.

3 Ω % 5 @ # ∞ © 2 8 $ 4 ¥ 7 Σ β & 9 1 € 6

Total 7 elements i.e., @ # ∞ © $ ¥ Σ are there between 5 and β.

57. Ans. D.

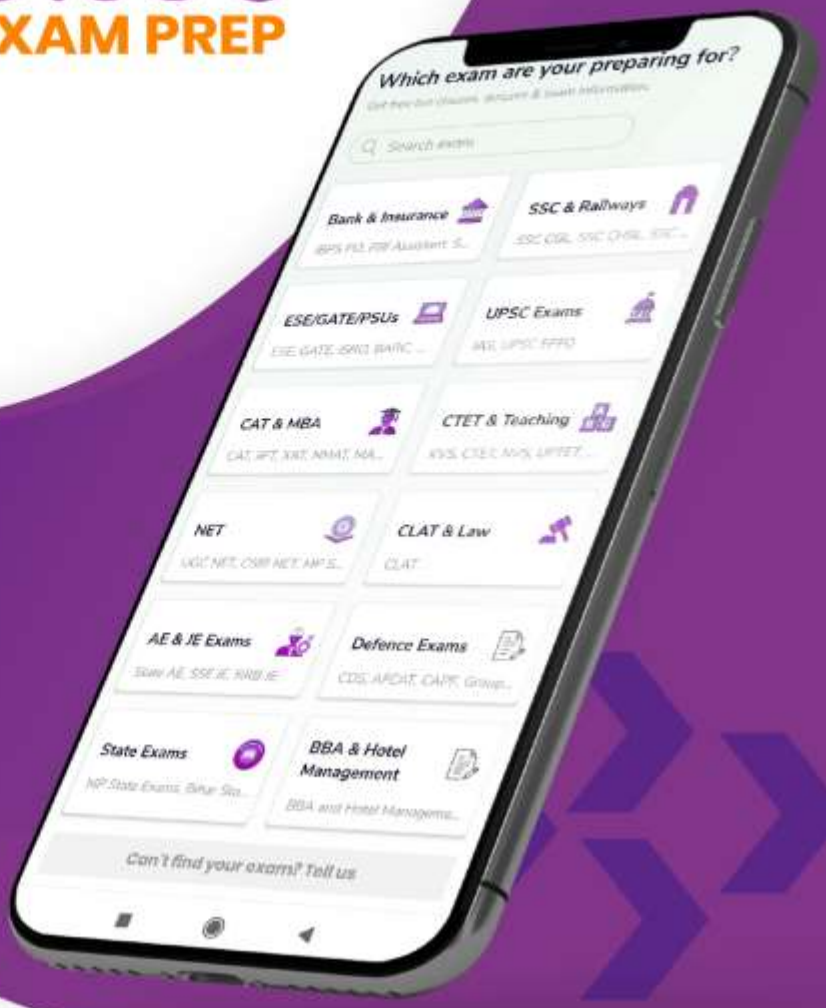
3 Ω % 5 @ # ∞ © 2 8 $ 4 ¥ **7 Σ β** & 9 1 € 6

58. Ans. D.

3 Ω % 5 @ # ∞ © 2 8 $ 4 ¥ 7 Σ β & 9 1 € 6

7 is 14th from left end and # is 8th left of 7.

BYJU'S EXAM PREP



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