

RRB Clerk Pre 2022 (13th August) Shift-Wise Previous Year Papers Mock 06

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

Eight persons are seating around a circular table, in such a way that some are facing inside and some are facing outside the table. C sits second to the right of H. Only one person sits between A and C. B sits third to the right of A. Immediate neighbors of G are facing opposite directions. B is not an immediate neighbor of C. F is facing E who is not an immediate neighbor of A. Immediate neighbors of F are facing opposite directions. D is not facing C. C is neither an immediate neighbor of B nor E. B is facing G who is facing same

Q1. Who are

- (a) B
- (b) C
- (c) A
- (d) E
- (e) None of these

Q2. How many persons are sitting between A and H, when counted clockwise from A, when counting starts from A?

- (a) More than three
- (b) Two
- (c) Three
- (d) One
- (e) None

Q3. Who are sitting opposite to the one who sits third to the left of C?

- (a) G
- (b) E
- (c) B
- (d) A
- (e) None of these

Q4. What is the position of H with respect to D?

- (a) Second to the right
- (b) Second to the left
- (c) Immediate right
- (d) Third to the left
- (e) None of these

Q5. Who among the following is immediate neighbor of F?

- (a) H
- (b) A
- (c) C
- (d) D
- (e) Both A and D

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

In a certain code language

'Privacy Soc

'Biopic law S

'Media law a

'Review cult

Q6. What is

- (a) ja
- (b) ha
- (c) yo
- (d) na
- (e) None of

Q7. What is

- (a) ja ha ta
- (b) ta ra ha
- (c) ha ja ra
- (d) Either a
- (e) None of

Q8. What is

- (a) ja
- (b) yo
- (c) la
- (d) ha
- (e) Can't be determined

Q9. What does 'la' stand for?

- (a) law
- (b) account
- (c) Social
- (d) culture
- (e) None of these



Q10. What is the code for 'law'?

- (a) ja
- (b) yo
- (c) sa
- (d) ha
- (e) None of these

Q11. If all the letters in the word "REGARDING" are arranged in alphabetical order from left to right, then how many letters remain at the same place after rearrangement?

- (a) One
- (b) Three
- (c) Two
- (d) None
- (e) More than three

Q12. If in the number 456789, the first digit is added to the last digit, the second digit is subtracted from the third digit, the third digit is multiplied by the fourth digit, and the fourth digit is divided by the fifth digit, what is the resulting number?

- (a) One
- (b) Three
- (c) Two
- (d) None
- (e) More than three

Directions: Read the following information carefully and answer the questions given below.

Six wrestlers are participating in Olympic. Each of them has different weight. B is heavier than only three people. A is heavier than only W, Z and no heavies and D is lighter than only C. The weight of A is 89 kg. C is heavier than at least two persons.

Q13. Who is the lightest?

- (a) A
- (b) B
- (c) Y
- (d) C
- (e) W

Q14. What will be the possible weight of B?

- (a) 67 Kg
- (b) 52 Kg
- (c) 80 Kg
- (d) 95 Kg
- (e) 22 Kg

Q15. If the weight of the heaviest person is 115 kg then what will be the difference between the weights of C and Z?

- (a) 34 kg
- (b) 32 kg
- (c) 11 kg
- (d) 14 kg
- (e) None of these

Directions (16-18): Study the following information carefully and answer the given questions:

Point R is 10m west of point S. Point S is 6m north of point T. Point U is 8m west of point R. Point V is 12m south of point U.

Q16. Point T is in which direction with respect to point R?

- (a) East
- (b) South-west
- (c) North-east
- (d) South-east
- (e) North-west

Q17. Point U is in which direction with respect to point T?

- (a) West
- (b) East
- (c) North-east
- (d) South-west
- (e) South-east

Q18. What is the shortest distance between point X and point Y?

- (a) 12m
- (b) $5\sqrt{2}$ m
- (c) $4\sqrt{3}$ m
- (d) $\sqrt{52}$ m
- (e) None of these

Directions (19-22): In each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below is/are definitely true and give your answer accordingly.

Q19.

Statements:

$P < R < S < T > U$

Conclusions:

I. $U < R$

II. $T > P$

-
- (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.

Q20.

Statements:

$T > U \geq V \geq W, X < Y = W > Z$

Conclusions:

I. $Z > U$

II. $W < T$

- (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.

Q21.

Statements:

$K < L < M < N, M < O < P$

Conclusions:

I. $P > K$

II. $N > O$

- (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.

Q22.

Statements:

$B < A < C, A > D \leq E$

Conclusions:

I. $B \leq E$

II. $C > E$

- (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.

Directions (23-27): Study the following information carefully and answer the questions given below.

Eight persons J, K, L, M, N, O, P and Q will attend the meeting in the August and September month. In each month, they will attend the meeting on different dates 1, 5, 15 and 17 of the given months in the same year.

J will attend the meeting on the 5th September. Three persons will attend the meeting between J and P. More than two persons will attend the meeting between P and M. Two persons will attend the meeting between M and Q. Three persons will attend the meeting between Q and L. K will not attend the meeting immediately before and immediately after Q. K will not attend the meeting on 15th September. Two persons will attend the meeting between N and O. N will attend the meeting in August month.

Q23. Who among the following will attend the meeting on 5th August?

- (a) L
- (b) P
- (c) O
- (d) N
- (e) M

Q24. How many persons will attend the meeting between J and P?

- (a) One
- (b) Three
- (c) Five
- (d) Two
- (e) Four

Q25. Q will attend the meeting on which of the following dates?

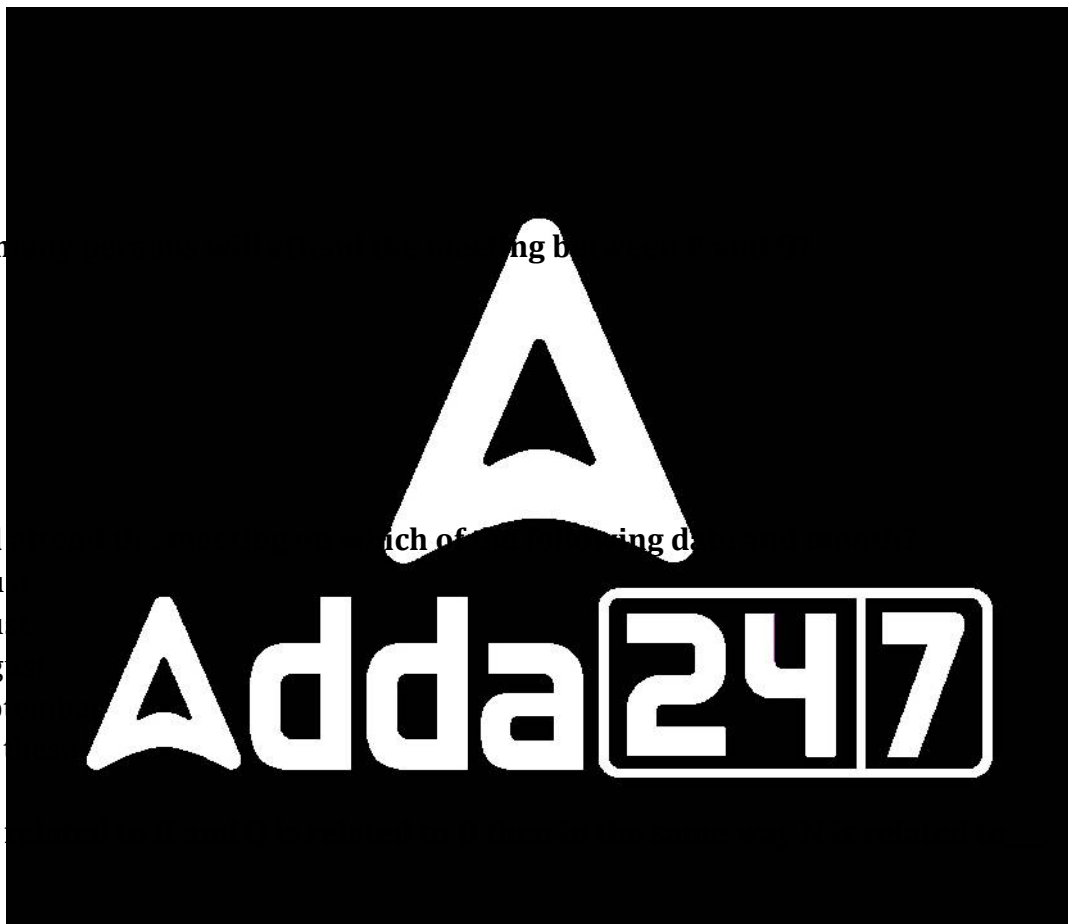
- (a) 5th August
- (b) 1st August
- (c) 17th August
- (d) 17th September
- (e) None of these

Q26. If L is not attending the meeting, who among the following will attend the meeting on 15th September?

- (a) L
- (b) P
- (c) O
- (d) J
- (e) M

Q27. Who among the following will attend the meeting on 1st August?

- (a) L
- (b) P
- (c) O
- (d) N
- (e) M



Directions (28-32): Study the following number series and answer the questions given below.

3 2 5 4 7 6 8 9 6 1 3 5 2 8 4 4 4 5 2 7 8 2 9 7 2 1 5 6 8 1

Q28. How many such even numbers are there in the number series which are immediately preceded by a number, which is a whole square?

- (a) One
- (b) Two
- (c) Three
- (d) More than three
- (e) None of these

Q29. If all the numbers in the series are placed in ascending order from the 5th to the right of the series, then

- (a) 2
- (b) 8
- (c) 6
- (d) 4
- (e) None of these

Q30. If all the numbers in the series are placed in ascending order from the 5th to the right of the series, then

- (a) 7
- (b) 2
- (c) 3
- (d) 5
- (e) 6

Q31. What is the sum of the numbers which is 3rd from the left and 4th from the right of the series?

- (a) 5
- (b) 6
- (c) 8
- (d) 10
- (e) None of these

Q32. How many such odd numbers are there which is immediately preceded by a perfect square (except 1) in the above sequence?

- (a) Four
- (b) Five
- (c) Three
- (d) Seven
- (e) None of these

Directions (33-34): Study the following information carefully and answer the given questions.

Six persons are having different weights. P's weight is not an odd number. The weight of N is more than the only X and P. K's weight is less than only one person. The weight of R and T is 75kg and 65kg respectively. The weight of the lightest person is 57kg.

Q33. Who among the following is the lightest person?

- (a) X
- (b) P
- (c) K
- (d) T
- (e) R

Q34. What is the possible weight of K?

- (a) 66kg
- (b) 60kg
- (c) 59kg
- (d) 76kg
- (e) 77Kg

Q35. Ranveer is 18th from the left end of a row and Deepika is 15th from the right end of row. If they interchanged their positions then Deepika ranks become 9 from right end. Find total number of persons in the row?

- (a) 27
- (b) 30
- (c) 28
- (d) 31
- (e) None of these

Directions below:

Ten persons are sitting in two rows of five persons each row in such a way that each person in one row is facing a person in the other row. Members of the first row are facing north.

R sits in the first row and sits immediate right of Y who sits exactly opposite to Z. S sits at the extreme end of the second row and is third to the left of U. Two persons sit between Q and T. Q sits opposite to X. W does not sit at the end. S is not immediate neighbor of Z.

Q36. Who among the following sits opposite to U?

- (a) Q
- (b) V
- (c) W
- (d) X
- (e) None of these

Q37. Who among the following sits immediate left of Q?

- (a) T
- (b) S
- (c) Z
- (d) U
- (e) None of these

Q38. Four of the following five are alike in a certain way so form a group, which of the following does not belong to that group?

- (a) T
- (b) W
- (c) V
- (d) Z
- (e) R

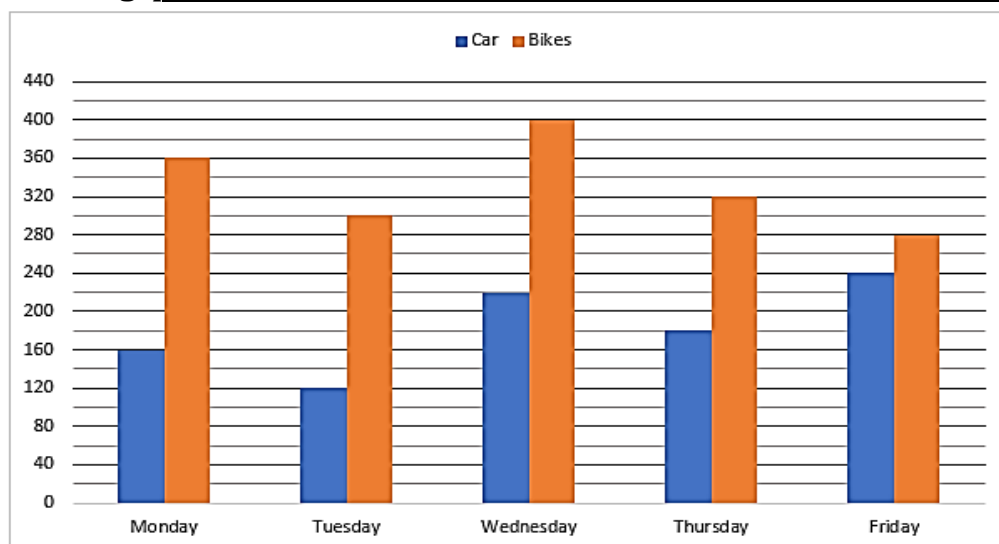
Q39. How many...

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None

Q40. How many...

- (a) One
- (b) Two
- (c) Three
- (d) Both are...
- (e) None

Directions (Q37-Q40): The bar graph given below shows the number of cars and bikes sold in a city on five different days of a week. Read the data to give your answers to the following questions.



Q41. Average number of cars sold on Monday & Thursday are what percentage of total number of bikes sold on Wednesday & Friday together.

- (a) 20%
- (b) 50%
- (c) $33\frac{1}{3}\%$
- (d) 25%
- (e) 40%

Q42. Find the ratio of total number vehicles (Bike + Car) sold on Tuesday to total number vehicles (Bike + Car) sold on Wednesday.

- (a) 18: 23
- (b) 21: 25
- (c) 23: 25
- (d) 23: 19
- (e) 17: 21

Q43. Total number of bikes sold on Tuesday are what percentage more than total number of cars sold on Wednesday together?

- (a) 5%
- (b) 2.5%
- (c) 10%
- (d) 7.5%
- (e) 0%

Q44. Total number of bikes sold on Saturday are 20% more than number of cars sold on Sunday and total number of cars sold on Sunday are 20% more than that of bikes sold on Saturday. Find total number of bikes sold on Saturday.

- (a) 420
- (b) 400
- (c) 360
- (d) 384
- (e) 396

Q45. If the ratio total sold units of Cars and Scooters on Tuesday is 6: 4 respectively, then find total units of scooter sold on Tuesday?

- (a) 180
- (b) 120
- (c) 160
- (d) 80
- (e) 100

Q46. A contractor employed 20 men to finish a work in 22 days. After 10 days he employed X men more, due to which work completed by them in 6 days less than projected. Find the value of X.

- (a) 20
- (b) 15
- (c) 14
- (d) 18
- (e) 24

Q47. A 440 ml mixture of water and milk contain 40% of water. If 54 ml of water and 66 ml of milk is added into the mixture, then find the ratio of milk and water in the mixture.

- (a) 19: 23
- (b) 21: 25
- (c) 33: 23
- (d) 21: 17
- (e) 20: 17

Q48. A bag contains 10 yellow balls and 5 red balls. If 3 balls are drawn at random, the probability that 2 yellow balls and 1 red ball is $\frac{2}{5}$, the number of balls in the bag is

- (a) 12
- (b) 15
- (c) 20
- (d) 18
- (e) 25

Q49. The speed of a boat in still water is 10 kmph. It can cover a distance of 40 km upstream in 8 hours. Find the speed of the stream.

- (a) 6 kmph
- (b) 8 kmph
- (c) 7 kmph
- (d) 4 kmph
- (e) 5 kmph

Q50. Pipe A and pipe B can fill a tank in 15 hours and 18 hours respectively. Both the pipes were opened together, after 5 hours pipe A was closed. Find the total time taken to fill the tank.

- (a) 12 hours
- (b) 15 ours
- (c) 9 hours
- (d) 14 hours
- (e) 16 hours

Q51. 690 toffees are distributed among Jyoti, Shalu and Sagar in the ratio of 7: 11: 5. Find the difference between no. of toffees of Jyoti and Sagar.

-
- (a) 180
 - (b) 100
 - (c) 120
 - (d) 90
 - (e) 60

Q52. The area of square is 100 m^2 more than the area of a rectangle of length 12 m. If the perimeter of the square is 56 m, then find the ratio of length and breadth of the rectangle.

- (a) 5: 4
- (b) 3: 2
- (c) 5: 3
- (d) 6: 5
- (e) 7: 5

Q53. Average weight of 15 persons is 50 kg. If one person is added whose weight is 10 kg more than first person and another person whose weight is 10 kg less than second person is added, then find the new average weight.

- (a) 55 kg
- (b) 62 kg
- (c) 48 kg
- (d) 43 kg
- (e) 64 kg

Q54. Mukesh invests Rs. 15000 in a bank at simple interest rate of 10% p.a. for 1.5 years at service charge of Rs. 1500. Find the sum he gets at the end of the term.

- (a) Rs. 5000
- (b) Rs. 4000
- (c) Rs. 3000
- (d) Rs. 6000
- (e) Rs. 7000

Q55. Ayush spends 25% of his monthly income on rent, 35% on food and 20% of income he saves. If the difference between his savings and expenditure on food is Rs. 1800, then find his expenditure of Rent.

- (a) Rs. 4500
- (b) Rs. 3600
- (c) Rs. 5400
- (d) Rs. 4800
- (e) Rs. 6000

Directions (56-60): Which number is wrong in the following number series.

Q56. 64, 384, 48, 288, 36, 216, 28

- (a) 216
- (b) 384
- (c) 28
- (d) 288
- (e) 48

Q57. 16, 15, 32, 99, 400, 2005. 12036

- (a) 16
- (b) 2005
- (c) 400
- (d) 99
- (e) 12036

Q58. 5, 10,

- (a) 5
- (b) 26
- (c) 124
- (d) 170
- (e) 50

Q59. 160, 1

- (a) 154
- (b) 160
- (c) 82
- (d) 54
- (e) 106

Q60. 65, 50

- (a) 50
- (b) 95
- (c) 20
- (d) 65
- (e) 105



Directions (61-65): The given table shows the data related to five students and the total number of movies watched by them during a period of ten years. Read the data carefully and answer the questions.

Note: Total number of movies watched by any student = Number of Hollywood movies + Number of Bollywood movies.

Students	Total number of movies watched	Ratio of Hollywood to Bollywood movies
A	350	4 : 3
B	400	11 : 9
C	250	3 : 7
D	200	13 : 12
E	375	16 : 9

Q61. What is average number of Bollywood movies watched by students A, B and D together?

- (a) 132
- (b) 138
- (c) 142
- (d) 144
- (e) 146

Q62. The total number of Hollywood movies watched by students A, B and D is more/less than the total number of Bollywood movies watched by students A, B and D together?

- (a) 40%
- (b) 45%
- (c) 35%
- (d) 30%
- (e) 50%

Q63. The total number of Hollywood movies watched by students A, B and D is how much more/less than the total number of Bollywood movies watched by students A, B and D together?

- (a) 54
- (b) 74
- (c) 60
- (d) 64
- (e) 70

Q64. Find the ratio of the total number of Hollywood movies watched by students A, B and D to the number of Bollywood movies watched by students A, B and D together.

- (a) 49 : 45
- (b) 45 : 49
- (c) 90 : 97
- (d) 10 : 11
- (e) 9 : 11

Q65. The average of total number of movies watched by B and D is what percent of the average of total number of movies watched by A and C.

- (a) 125%
- (b) 75%
- (c) 80%
- (d) 120%
- (e) 100%

Directions (66-79): What will come in the place of question (?) mark in following questions.

Q66. $\{(400\% \text{ of } ? + 15 \times 12) - 140\} = 60$

- (a) 5
- (b) 4
- (c) 6
- (d) 3
- (e) 7

Q67. $? = 30\% \text{ of } 1200 - 122 + 7^2$

- (a) 263
- (b) 287
- (c) 316
- (d) 419
- (e) 353

Q68. $? = 22\frac{2}{9}\% \text{ of } 72 + \sqrt{1444}$

- (a) 48
- (b) 58
- (c) 42
- (d) 54
- (e) 40

Q69. $840 = 25\% \text{ of } 2560 + 12.5\% \text{ of } ?$

- (a) 1600
- (b) 1400
- (c) 1200
- (d) 1300
- (e) 1500

Q70. $4! + 20\% \text{ of } 45\% \text{ of } 200 = ?$

- (a) 64
- (b) 72
- (c) 42
- (d) 58
- (e) 48

Q71. $\frac{820}{510} \times \frac{1700}{410} = \frac{?}{3}$

- (a) 10
- (b) 20
- (c) 30
- (d) 45
- (e) 15

Q72. $8^{16} \times 64^{35} \div 512^{12} = 64^?$

- (a) 25
- (b) 50
- (c) 20
- (d) 40
- (e) 60

Q73. $55 \times 44 + 17.5\% \text{ of } 1600 = ?$

- (a) 2100
- (b) 2400
- (c) 2700
- (d) 2200
- (e) 2500

Q74. $3\frac{1}{2} \times 7\frac{2}{3} \div 9\frac{6}{7} = \frac{?^2}{2}$

- (a) 7/6
- (b) 5/3
- (c) 8/5
- (d) 7/4
- (e) 7/3

Q75. $29^2 + 13 \times 3 = ? \times 10$

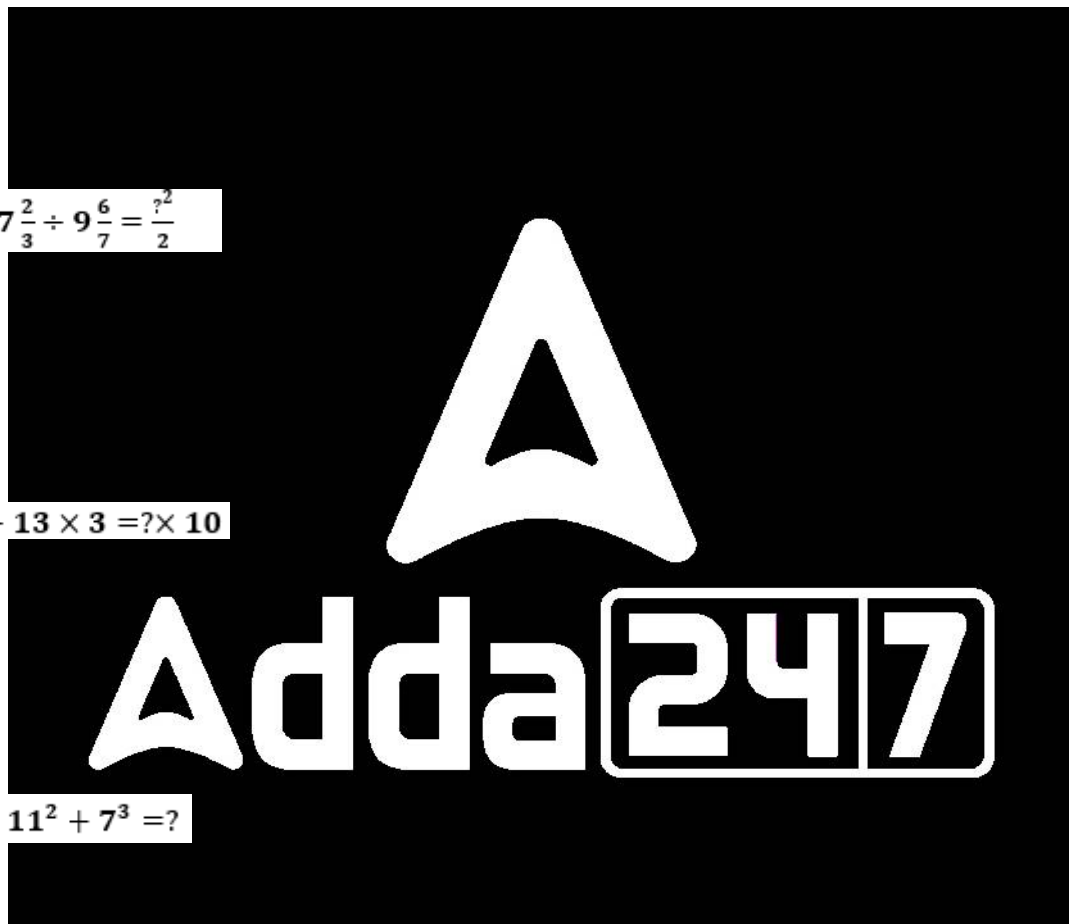
- (a) 66
- (b) 77
- (c) 88
- (d) 55
- (e) 99

Q76. $18^2 - 11^2 + 7^3 = ?$

- (a) 612
- (b) 515
- (c) 676
- (d) 546
- (e) 625

Q77. $65\% \text{ of } 180 + 15 \times \sqrt{841} = ?$

- (a) 552
- (b) 428
- (c) 635
- (d) 512
- (e) 685



Q78. $?^2 + 12^2 = 23^2 - \frac{4}{7}$ of 168

- (a) 16
- (b) 19
- (c) 17
- (d) 14
- (e) 18

Q79. $\frac{45}{270} \times \frac{162}{9} = ? \div 15$

- (a) 60
- (b) 45
- (c) 40
- (d) 75
- (e) 55

Q80. Neera's investment in a business was Rs. 12700. After four months by Neeraj. At the end of the year, the profit was Rs. 10000. The share of Neeraj is

Rs. 900. Find the profit

- (a) Rs. 12700
- (b) Rs. 11800
- (c) Rs. 15800
- (d) Rs. 14500
- (e) Rs. 13600

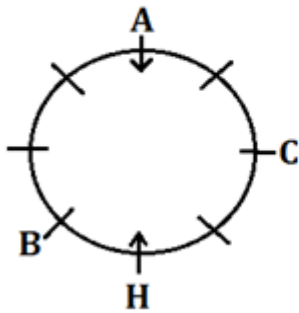


Solutions

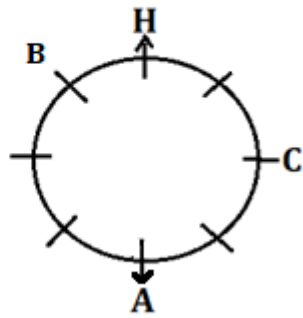
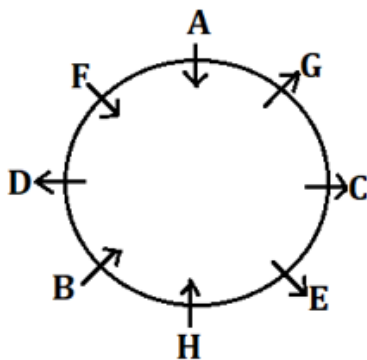
S1. Ans.(d)

Sol. (i) From the given conditions, C sits second to the right of H. Only one person sits between A and C. B sits third to the right of A. B is not an immediate neighbor of C. There are two possible cases.

Case-1



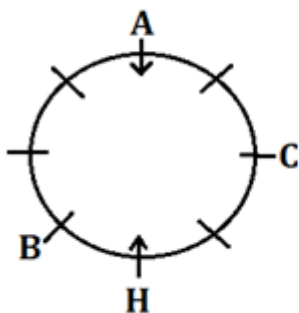
Case-2

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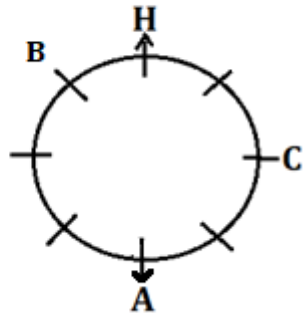
S2. Ans.(a)

Sol. (i) From the given information, we can say that A sits between B and C.
B sits third from the left end. So, C sits second from the right end.

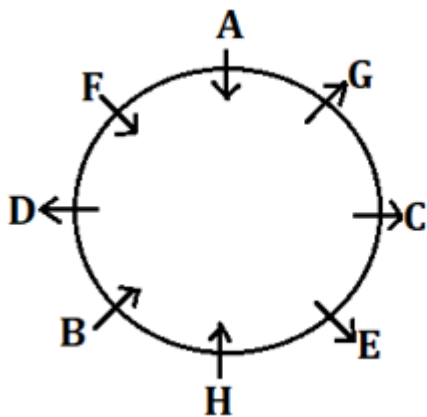
Case-1



Case-2



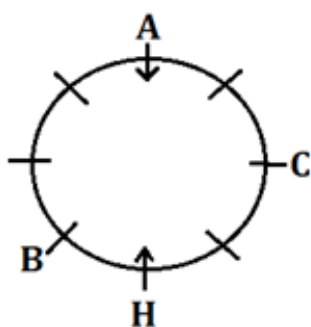
(ii) F is facing E, who is not an immediate neighbor of A. Immediate neighbors of F are facing opposite directions. D is not facing C. G is neither an immediate neighbor of B nor E. Immediate neighbors of G are facing opposite directions. From these conditions case-2 will be eliminated. B is facing G who is facing same direction as E and C. The final arrangement is-



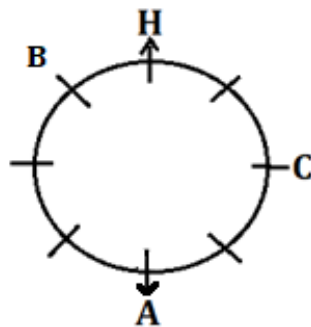
S3. Ans.(c)

Sol. (i) From the conditions given, we can see that A and C are not immediate neighbors. B sits third to the right of A. H sits opposite to A. The final arrangement is-

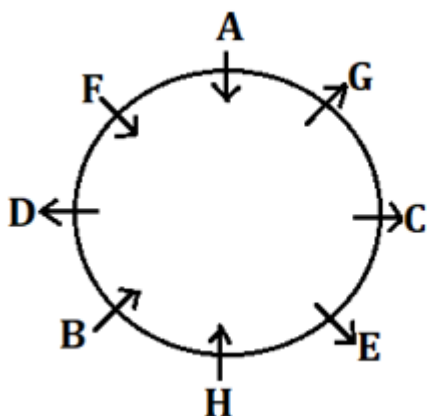
Case-1



Case-2

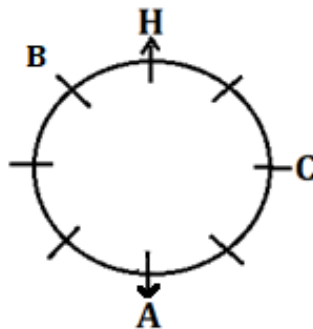
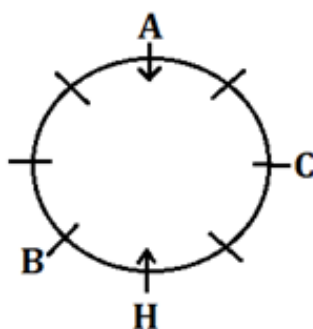


(ii) F is facing E, who is not an immediate neighbor of A. Immediate neighbors of F are facing opposite directions. D is not facing C. G is neither an immediate neighbor of B nor E. Immediate neighbors of G are facing opposite directions. From these conditions case-2 will be eliminated. B is facing G who is facing same direction as E and C. The final arrangement is-

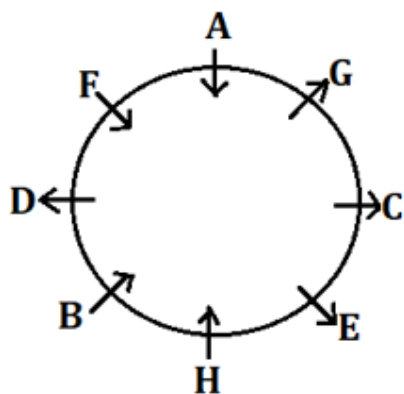


Sol. (i) From the given conditions, C sits second to the right of H. Only one person sits between A and C. B sits third to the right of A. B is not an immediate neighbor of C. There are two possible cases.

Case-2

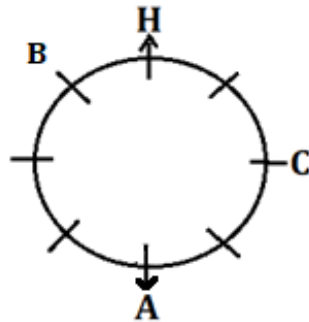
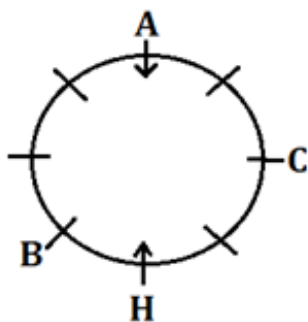


(ii) F is facing G from opposite directions. In this case, if F and G are neighbors of G, then F and G are facing opposite directions. If F and G are not neighbors of G, then F and G are facing same direction.

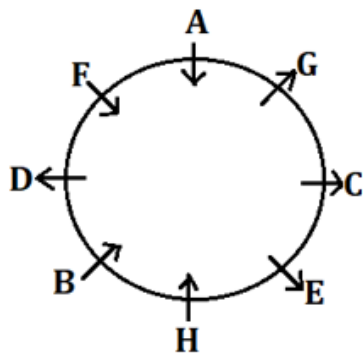


Sol. (i) From the given information, we can say that A sits second from the right end, B sits third from the right end, and C sits fourth from the right end. So, the arrangement is as follows:

Case-2



(ii) F is facing E, who is not an immediate neighbor of A. Immediate neighbors of F are facing opposite directions. D is not facing C. G is neither an immediate neighbor of B nor E. Immediate neighbors of G are facing opposite directions. From these conditions case-2 will be eliminated. B is facing G who is facing same direction as E and C. The final arrangement is-



S6. Ans.(c)

Sol.

Word	Code
Privacy	Yo
Social	Na
Media	Vo
Biopic/Security	ra/ta
Law	Sa
Account	La
Review/culture	ha/ja

S7. Ans.(d)

Sol.

Word	Code
Privacy	Yo
Social	Na
Media	Vo
Biopic/Security	ra/ta
Law	Sa
Account	La
Review/culture	ha/ja

S8. Ans.(e)

Sol.

Word	Code
Privacy	Yo
Social	Na
Media	Vo
Biopic/Security	ra/ta
Law	Sa
Account	La
Review/culture	ha/ja

S9. Ans.(b)

Sol.

Word	Code
Privacy	Yo
Social	Na
Media	Vo
Biopic/Security	ra/ta
Law	Sa
Account	La
Review/culture	ha/ja

S10. Ans.(c)

Sol.

Word	Code
Privacy	Yo
Social	Na
Media	Vo
Biopic/Security	ra/ta
Law	Sa
Account	La
Review/culture	ha/ja

S11. Ans.(d)

Sol. Given word is **WARD**
After arrangement **AWRGGRR**

S12. Ans.(b)

Sol. Given number is 2, 4, 5 and 7
After Applying the operation
2, 4 and 5 are repeated

S13. Ans.(d)

Sol. $C > Z(101\text{kg}) > B > A(89\text{kg}) > Y > W$

S14. Ans.(d)

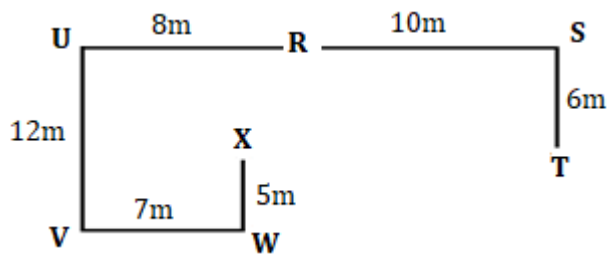
Sol. $C > Z(101\text{kg}) > B > A(89\text{kg}) > Y > W$

S15. Ans.(d)

Sol. $C > Z(101\text{kg}) > B > A(89\text{kg}) > Y > W$

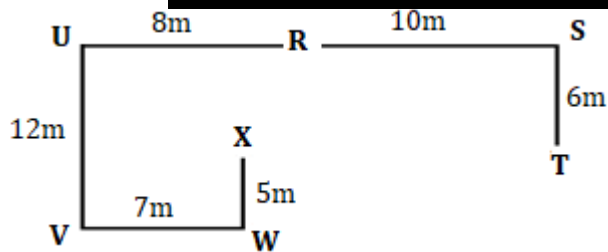
S16. Ans.(b)

Sol.



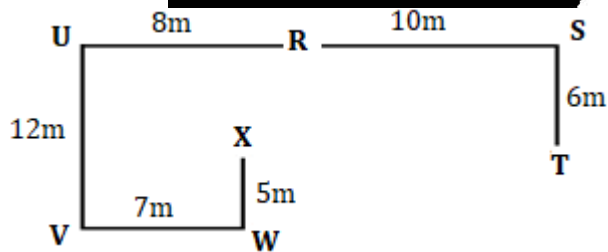
S17. Ans.(d)

Sol.



S18. Ans.(b)

Sol.



Shortest distance will be $XR^2 = 1^2 + 7^2 = 1 + 49 = 50$
 $XR = \sqrt{50} = 5\sqrt{2}m$

S19. Ans.(b)

Sol. I. $U < R$ (False) II. $T > P$ (True)

S20. Ans.(b)

Sol. I. $Z > U$ (False) II. $W < T$ (True)

S21. Ans.(a)

Sol. I. $P > K$ (True) II. $N > O$ (False)

S22. Ans.(d)

Sol. I. $B \leq E$ (False) II. $C > E$ (False)

Sol. From the given statements, J will attend the meeting on 5th of September. Three persons will attend the meeting between J and P. More than two persons will attend the meeting between P and M. Two persons will attend the meeting between M and Q. Three persons will attend the meeting between Q and L. Here we get two possible cases-

K will not attend the meeting on 15th September and the meeting on Case-2 will be cancelled on August 15th.

S24. Ans. (e)
Sol. From the given information, we can see that P, Q, R, S, T, U, V, W, X, Y, Z will attend the meeting. So, the total number of persons who will attend the meeting is 11. Two persons will be absent from the meeting. The possible cases between Q and L. Here we get two possible cases-

24

K will not attend the meeting immediately before and immediately after Q. K will not attend the meeting on 15th September. Two persons will attend the meeting between N and O. By this condition Case-2 will be cancelled. Also, N will attend the meeting in August month. Final arrangement will be-

Month	Date	Persons
August	1	L
	5	P
	15	K
	17	N
September	1	Q
	5	J
	15	O
	17	M

S25. Ans.(e)

Sol. From the given statements, J will attend the meeting on 5th of September. Three persons will attend the meeting between J and P. More than two persons will attend the meeting between P and M. Two persons will attend the meeting between M and Q. Three persons will attend the meeting between Q and L. Here we get two possible cases-

Month	Date	Case 1	Case 2
		Persons	Persons
August	1	L	
	5	P	P
	15		
	17		Q
September	1	Q	
	5	J	J
	15		M
	17	M	L

K will not attend the meeting immediately before and immediately after Q. K will not attend the meeting on 15th September. Two persons will attend the meeting between N and O. By this condition Case-2 will be cancelled. Also, N will attend the meeting in August month. Final arrangement will be-

Month	Date	Persons
August	1	L
	5	P
	15	K
	17	N
September	1	Q
	5	J
	15	O
	17	M

S26. Ans.(d)

Sol. From the given statements, J will attend the meeting on 5th of September. Three persons will attend the meeting between J and P. More than two persons will attend the meeting between P and M. Two persons will attend the meeting between M and Q. Three persons will attend the meeting between Q and L. Here we get two possible cases-

Month	Date	Case 1	Case 2
		Persons	Persons
August	1	L	
	5	P	P
	15		
	17		Q
September	1	Q	
	5	J	J
	15		M
	17	M	L

K will not attend the meeting immediately before and immediately after Q. K will not attend the meeting on 15th Sept. Case-2 will be cancelled.

Month	Date	Persons
August	1	L
	5	P
	15	K
	17	N
September	1	Q
	5	J
	15	O
	17	M

S27. Ans.(a)

Sol. From the condition, it is clear that on 15th Sept. Case-2 will be cancelled. Three persons will attend the meeting on 1st Sept. J and more than two persons will attend the meeting between N and M. Two persons will attend the meeting between L and Q. Three persons will attend the meeting between Q and L. Here, there are two possible cases.

Month	Date	Case 1	Case 2
		Persons	Persons
August	1	L	
	5	P	P
	15		
	17		Q
September	1	Q	
	5	J	J
	15		M
	17	M	L

K will not attend the meeting immediately before and immediately after Q. K will not attend the meeting on 15th September. Two persons will attend the meeting between N and O. By this condition Case-2 will be cancelled. Also, N will attend the meeting in August month. Final arrangement will be-

Month	Date	Persons
August	1	L
	5	P
	15	K
	17	N
September	1	Q
	5	J
	15	O
	17	M

S28. Ans.(c)

Sol. 96, 44, 44

S29. Ans.(b)

Sol. 8

S30. Ans.(d)

Sol. 5

New arrang

S31. Ans.(d)

Sol. 10

S32. Ans.(c)

Sol. 47, 45 a

S33. Ans.(a)

Sol. R(75) > N(57) > X(57)

S34. Ans.(a)

Sol. R(75) >

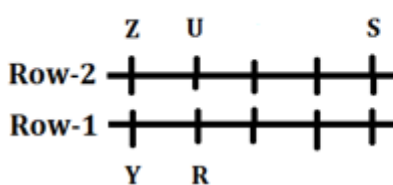
S35. Ans.(e)

Sol. Total nu

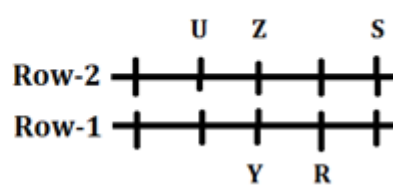
S36. Ans.(c)

Sol. S sits at the extreme end of the second row and is third to the left of U. R sits in the first row and sits immediate right of Y who sits exactly opposite to Z. S is not immediate neighbor of Z. There are two possibilities.

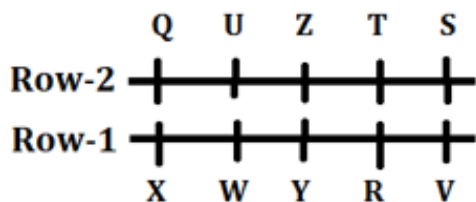
Case-1



Case-2

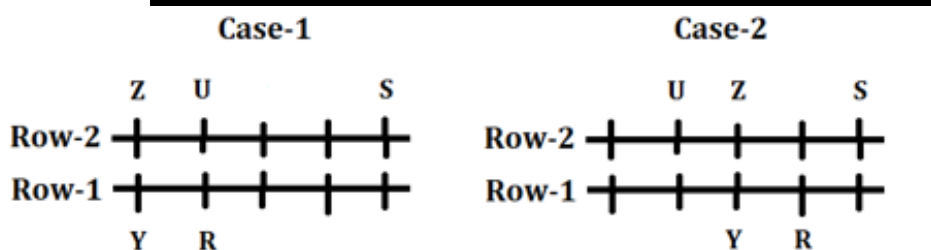


Two persons sit between Q and T. From this condition case-1 will be eliminated. Q sits opposite to X. So, there is only possibility that is Q and T sit in second row. W does not sit at the end. The final arrangement is-

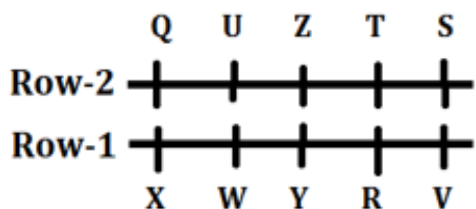


S37. Ans.(d)

Sol. S sits at first row and sits immediately to the right of R. There are two possibilities

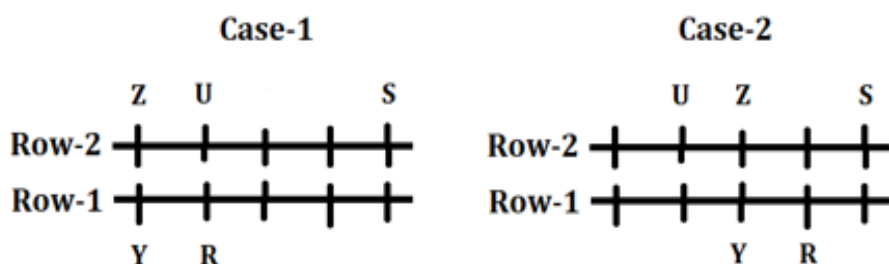


Two persons sit between Q and T. From this condition case-1 will be eliminated. Q sits opposite to X. So, there is only possibility that is Q and T sit in second row. W does not sit at the end. The final arrangement is-

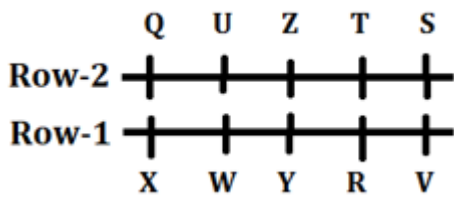


S38. Ans.(c)

Sol. S sits at first row and sits immediately to the right of R. There are two possibilities.

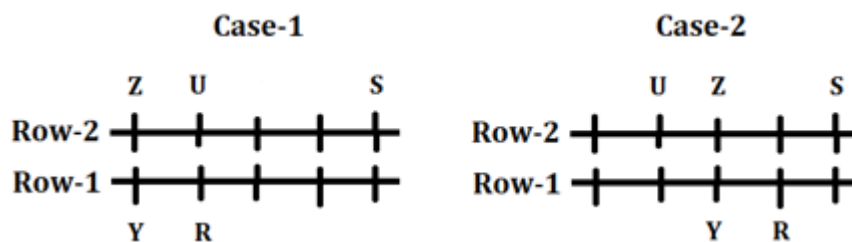


Two persons sit between Q and T. From this condition case-1 will be eliminated. Q sits opposite to X. So, there is only possibility that is Q and T sit in second row. W does not sit at the end. The final arrangement is-

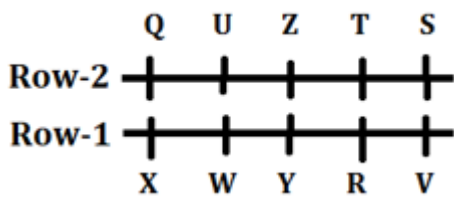


S39. Ans.(a)

Sol. S sits at the extreme end of the second row and is third to the left of U. R sits in the first row and sits immediate right of Y who sits exactly opposite to Z. S is not immediate neighbor of Z. There are two possibilities.

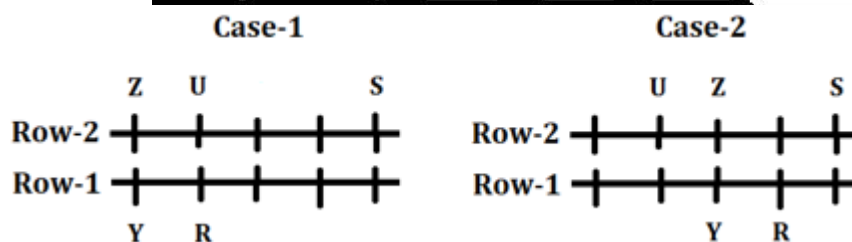


Two persons sit between Q and T. From this condition case-1 will be eliminated. Q sits opposite to X. So, there is only possibility that is Q and T sit in second row. W does not sit at the end. The final arrangement is-

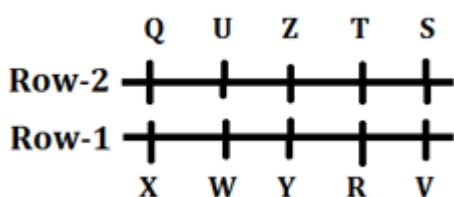


S40. Ans.(c)

Sol. S sits at the extreme end of the second row and is third to the left of U. R sits in the first row and sits immediate right of Y who sits exactly opposite to Z. S is not immediate neighbor of Z. There are two possibilities.



Two persons sit between Q and T. From this condition case-1 will be eliminated. Q sits opposite to X. So, there is only possibility that is Q and T sit in second row. W does not sit at the end. The final arrangement is-



S41. Ans.(d)

Sol.

$$\text{Average number of cars sold on Monday \& Thursday} = \frac{160+180}{2} = 170$$

$$\text{Total number of bikes sold on Wednesday \& Friday together} = 400 + 280 = 680$$

$$\text{So, required percentage} = \frac{170}{680} \times 100 = 25\%$$

S42. Ans.(b)

Sol.

$$\text{Required ratio} = \frac{120+300}{180+320} = \frac{420}{500}$$

$$= 21 : 25$$

S43. Ans.(e)

Sol.

$$\text{Total number of cars sold on Monday \& Friday together} = 160 + 240 = 400$$

$$\text{So, required percentage} = \frac{400-400}{400} \times 100 = 0\%$$

S44. Ans.(a)

Sol.

$$\text{Total number of bikes sold on Saturday} = 280 \times \frac{120}{100} = 336$$

$$\text{Total number bikes sold on Sunday} = 336 \times \frac{125}{100} = 420$$

S45. Ans.(d)

Sol.

$$\text{Total sold units of scooter on Tuesday} = \frac{4}{6} \times 120 = 80$$

S46. Ans.(a)

Sol.

ATQ

$$20 \times 22 = 20 \times 10 + (20 + X) \times (12 - 6)$$

$$6(20 + X) = 440 - 200$$

$$X = 40 - 20$$

$$X = 20$$

S47. Ans.(c)

Sol.

$$\text{Quantity of water} = \frac{40}{100} \times 440 = 176$$

$$\text{Quantity of milk} = 440 - 176 = 264$$

$$\text{Required ratio} = \frac{264+66}{176+54}$$

$$= 330 : 230$$

$$= 33 : 23$$

S48. Ans.(c)

Sol.

Let no. of yellow balls be x .

ATQ

$$\frac{x}{5+7+x} = \frac{2}{5}$$

$$5x = 24 + 2x$$

$$x = \frac{24}{3} = 8$$

$$\text{So total balls} = 5 + 7 + 8 = 20$$

S49. Ans.(d)

Sol.

$$\text{Upstream speed} = \frac{120}{10} = 12 \text{ kmph}$$

$$\text{Downstream speed} = 12 \times \frac{5}{3} = 20 \text{ kmph}$$

$$\text{Speed of stream} = \frac{20-12}{2} = 4 \text{ kmph}$$

S50. Ans.(a)

Sol.

Let total capacity of the tank be 90 liters. (LCM)

So, efficiency of A and B is 6 liter/hr. and 5 liter/hr. respectively.

ATQ

Let required time be T .

$$5 \times T + 6 \times 5 = 90$$

$$T = \frac{60}{5} = 12$$

S51. Ans.(e)

Sol.

$$\text{Required difference} = \frac{690}{7+11+5} \times (7 - 5)$$

$$= \frac{690}{23} \times 2 = 60$$

S52. Ans.(b)

Sol.

$$\text{Side of square} = \frac{56}{4} = 14$$

$$\text{Area of square} = 196$$

$$\text{Area of rectangle} = 196 - 100 = 96$$

$$\text{Breadth of rectangle} = \frac{96}{12} = 8 \text{ m}$$

$$\text{So, required ratio} = 12 : 8$$

$$3 : 2$$

S53. Ans.(b)

Sol.

Total sum of weight = $51 \times 3 = 153$

Let weight of second person be X kg.

ATQ

Weight of first person = $X + 14$

Weight of third person = $X - 5$

Now,

$$X + 14 + X + X - 5 = 153$$

$$3X = 144$$

$$X = 48$$

So, required weight = $48 + 14 = 62 \text{ kg}$

S54. Ans.(d)

Sol.

Let sum be Rs. P .

ATQ

$$P \left[\left(1 + \frac{10}{100} \right)^3 - 1 \right] = 1986$$

$$P \left(\frac{331}{1000} \right) = 1986$$

$$P = 1986 \times \frac{1000}{331}$$

$$P = 6000$$

S55. Ans.(a)

Sol.

Let his monthly income be Rs. $100x$.

ATQ

$$30x - 20x = 1800$$

$$x = 180$$

So, required amount = $25x = \text{Rs. } 4500$

S56. Ans.(c)

Sol.

The pattern of the series is -

$$64 \times 6 = 384$$

$$384 \div 8 = 48$$

$$48 \times 6 = 288$$

$$288 \div 8 = 36$$

$$36 \times 6 = 216$$

$$216 \div 8 = 27$$

S57. Ans.(a)

Sol.

The pattern of the series is -

$$14 \times 1 + 1 = 15$$

$$15 \times 2 + 2 = 32$$

$$32 \times 3 + 3 = 99$$

$$99 \times 4 + 4 = 400$$

$$400 \times 5 + 5 = 2005$$

$$2005 \times 6 + 6 = 12036$$

S58. Ans.(c)

Sol.

The pattern of the series is -

$$2^2 + 1 = 5$$

$$3^2 + 1 = 10$$

$$5^2 + 1 = 26$$

$$7^2 + 1 = 50$$

$$9^2 + 1 = 82$$

$$11^2 + 1 = 122$$

$$13^2 + 1 = 170$$

S59. Ans.(b)

Sol.

The pattern of the series is -

$$162 - 8 = 154$$

$$154 - 12 = 142$$

$$142 - 16 = 126$$

$$126 - 20 = 106$$

$$106 - 24 = 82$$

$$82 - 28 = 54$$

S60. Ans.(e)

Sol.

The pattern of the series is -

$$65 - 15 = 50$$

$$50 + 30 = 80$$

$$80 - 45 = 35$$

$$35 + 60 = 95$$

$$95 - 75 = 20$$

$$20 + 90 = 110$$

S61. Ans.(c)

Sol.

$$\text{Required average} = \frac{350 \times \frac{3}{7} + 400 \times \frac{9}{20} + 200 \times \frac{12}{25}}{3} = \frac{150 + 180 + 96}{3} = 142$$

S62. Ans.(a)

Sol.

Total number of Hollywood movies watched by student

$$E = 375 \times \frac{16}{25} = 240$$

$$\text{Required percentage} = \frac{(400-240)}{400} \times 100 = \frac{160}{400} \times 100 = 40\%$$

S63. Ans.(d)

Sol.

$$\begin{aligned} \text{Total number of Hollywood movies watched by students C and B together} &= 250 \times \frac{3}{10} + \\ 400 \times \frac{11}{20} &= 75 + 220 = 295 \end{aligned}$$

$$\begin{aligned} \text{Total number of Bollywood movies watched by students D and E together} &= \frac{200 \times 12}{25} + \frac{375 \times 9}{25} \\ &= 96 + 135 = 231 \end{aligned}$$

$$\text{Required difference} = 295 - 231 = 64$$

S64. Ans.(b)

Sol.

$$\begin{aligned} \text{Required ratio} &= \frac{250+200}{\frac{400 \times 9}{20} + \frac{250 \times 7}{10} + \frac{375 \times 9}{25}} = \frac{450}{490} \\ &= 45 : 49 \end{aligned}$$

S65. Ans.(e)

Sol.

$$\text{Required percentage} = \frac{(400+200)}{(350+250)} \times 100 = 100\%$$

S66. Ans.(a)

Sol.

$$\begin{aligned} \frac{400}{100} \times ? + 180 - 140 &= 60 \\ ? = \frac{20}{4} &= 5 \end{aligned}$$

S67. Ans.(b)

Sol.

$$? = 360 - 122 + 49$$

$$? = 287$$

S68. Ans.(d)

Sol.

$$? = \frac{2}{9} \times 72 + 38$$

$$? = 16 + 38 = 54$$

S69. Ans.(a)

Sol.

$$840 = 640 + \frac{1}{8} \times ?$$
$$? = 200 \times 8 = 1600$$

S70. Ans.(c)

Sol.

$$24 + \frac{20}{100} \times \frac{45}{100} \times 200 = ?$$
$$? = 24 + 18 = 42$$

S71. Ans.(b)

Sol.

$$\frac{820}{510} \times \frac{1700}{410} = \frac{?}{3}$$
$$\frac{20}{3} = \frac{?}{3}$$
$$? = 20$$

S72. Ans.(a)

Sol.

$$8^{16} \times 8^{70} \div 8^{36} = 8^{2x?}$$
$$8^{16+70-36} = 8^{2x?}$$
$$2x? = 50$$
$$? = 25$$

S73. Ans.(c)

Sol.

$$2420 + 280 = ?$$
$$? = 2700$$

S74. Ans.(e)

Sol.

$$\frac{7}{2} \times \frac{23}{3} \times \frac{7}{69} = \frac{?^2}{2}$$
$$\frac{49}{9} = ?^2$$
$$? = \frac{7}{3}$$

S75. Ans.(c)

Sol.

$$841 + 39 = ? \times 10$$
$$\frac{880}{10} = ?$$
$$? = 88$$

S76. Ans.(d)

Sol.

$$324 - 121 + 343 = ?$$

$$? = 546$$

S77. Ans.(a)

Sol.

$$\frac{65}{100} \times 180 + 15 \times 29 = ?$$

$$117 + 435 = ?$$

$$? = 552$$

S78. Ans.(c)

Sol.

$$?^2 + 144 = 529 - 96$$

$$?^2 = 433 - 144 = 289$$

$$? = 17$$

S79. Ans.(b)

Sol.

$$? = 3 \times 15$$

$$? = 45$$

S80. Ans.(c)

Sol.

$$\text{Ratio of profit share of Neeraj to Prashant} = 7500 \times 12 : (7500 + 1000) \times 8$$
$$= 45 : 34$$

$$\text{So, required amount} = 900 \times \frac{(45+34)}{45} = 1580 \text{ Rs.}$$