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. G is neither an immediate neighbor of B nor E. B is facing G who is facing same direction as E and C.

Q1. Who among the following sits second to the right of G?

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

Q2. How many persons sit between E and A, when counted from the right of A?

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

Q3. Who among the following sits second to the right of 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

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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 Social Media' is written as 'yo vo na',
'Biopic law Security' is written as 'sa ra ta',
'Media law account' is written as 'la vo sa',
'Review culture Privacy' is written as 'yo ha ja'.

Q6. What is the code for 'Privacy'?
(a) ja
(b) ha
(c) yo
(d) na
(e) None of these

Q7. What is the code for 'Review culture biopic'?
(a) ja ha ta
(b) ta ra ha
(c) ha ja ra
(d) Either a or c
(e) None of these

Q8. What is the code for 'review'?
(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 763154921, 1 is added to each of the digits which is less than five and 1 is subtracted from each of the digit which is greater than or equal to five then how many digits are repeating in the number thus formed?
(a) One
(b) Three
(c) Two
(d) None
(e) More than three

Directions (13-15): Study the information carefully and answers the questions given below.
Six wrestlers are participating in Olympic. Each of them has different weights. B is heavier than only three people. Y is heavier than only W. Z is not heaviest and his weight is 101 kg. The weight of A is 89 kg. C is heavier than at least two persons.

Q13.Who among the following is the heaviest?
(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. Point W is 7m east of point V. Point X is 5m north of point W.

Q16. Point V 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 X 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 R?
(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 P and O?
(a) One
(b) Three
(c) Five
(d) Two
(e) Four

Q25. Q will attend the meeting on which of the following date and month?
(a) 5th August
(b) 1st August
(c) 17th August
(d) 17th September
(e) None of these

Q26. If L is related to K and Q is related to O then in the same way N is related to___.
(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 odd numbers are dropped from the series, then which number will be the 5th to the right of the 7th from the left end?
(a) 2
(b) 8
(c) 6
(d) 4
(e) None of these

Q30. If all '1' are replaced by '2' and all '4' are replaced by '5' in the given number series, then which number will be 4th to the left of 15th from the right end?
(a) 7
(b) 2
(c) 3
(d) 5
(e) 6

Q31. What is the sum of the number which is 3rd form the left end and the number which is 4th from the right end?
(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 (36-40): **Study the following information carefully and answer the questions given below:**
Ten persons Q, R, S, T, U, V, W, X, Y and Z are sitting in two parallel rows with five persons in each row in such a way that persons sit in the first row face the persons sit in the second row and vice versa. 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

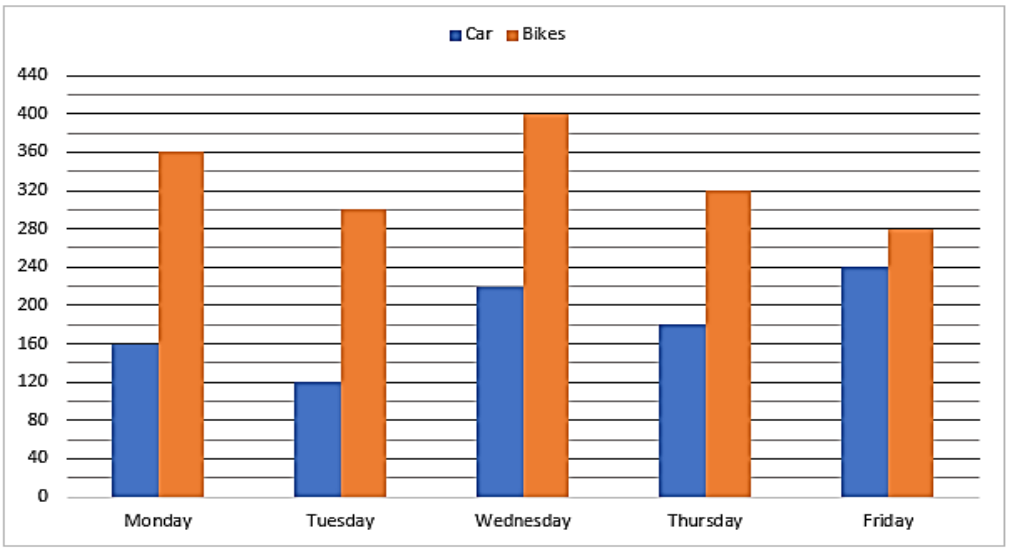
Q37. Who among the following sits immediate left of Q?
(a) T
(b) S
(c) Z
(d) U
(e) None of these

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 persons sit to the left of T?
(a) One
(b) Two
(c) Three
(d) Four
(e) None

Q40. How many persons sit between X and V?
(a) One
(b) Two
(c) Three
(d) Both are sitting in different rows.
(e) None

Directions (41-45): The bar graph given below shows the total number of cars and bikes sold in a city on five different days of a week. Read the data given below carefully and answer 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 ⅓%
(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 Thursday?
(a) 18: 23
(b) 21: 25
(c) 23: 25
(d) 23: 19
(e) 17: 21

Q43. Total number of bikes sold on Wednesday are what percentage more or less than total number of cars sold on Monday & Friday 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 that of on Friday and total number of bikes sold on Sunday are 25% more than that of on Saturday. Find the total number of bikes sold on Sunday.
(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 5 red, 7 white and some yellow ball. If the probability of choosing yellow ball is 2/5, the find the total balls.
(a) 12
(b) 15
(c) 20
(d) 18
(e) 25

Q49. The speed of downstream is 66 ⅔% more than speed of upstream. If the boat covers a distance of 120 km in upstream in 10 hours. Find the speed of 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 three person is 51. If weight of second person is 14 kg less than first person and 5 kg more than third person, then find the age of first person.
(a) 55 kg
(b) 62 kg
(c) 48 kg
(d) 43 kg
(e) 64 kg

Q54. Mukesh invested a certain sum of money on compound interest at rate of 20% p.a. for 1.5 years at semiannually. If interest obtained by him is Rs. 1986, then find the sum.
(a) Rs. 5000
(b) Rs. 4000
(c) Rs. 3000
(d) Rs. 6000
(e) Rs. 7000

Q55. Ayush spent 25% of his monthly income on rent, 30% 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, 26, 50, 82, 124, 170
(a) 5
(b) 26
(c) 124
(d) 170
(e) 50

Q59. 160, 154, 142, 126, 106, 82, 54
(a) 154
(b) 160
(c) 82
(d) 54
(e) 106

Q60. 65, 50, 80, 35, 95, 20, 105
(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 student E is what percent more/less than the total number of movies watched by student B?
(a) 40%
(b) 45%
(c) 35%
(d) 30%
(e) 50%

Q63. The total number of Hollywood movies watched by students C and B together is how much more/less than the total number of Bollywood movies watched by student D & E together?
(a) 54
(b) 74
(c) 60
(d) 64
(e) 70

Q64. Find the ratio of total number of movies watched by student C & D together to the number of Bollywood movies watched by B, C and E 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. $\{(400\%\ of\ ? + 15 \times 12) - 140\} = 60$

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

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

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

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

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

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

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

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

(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. $55 \times 44 + 17.5\% \ of \ 1600 = ?$
(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. $65\% \ of \ 180 + 15 \times \sqrt{841} = ?$
(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

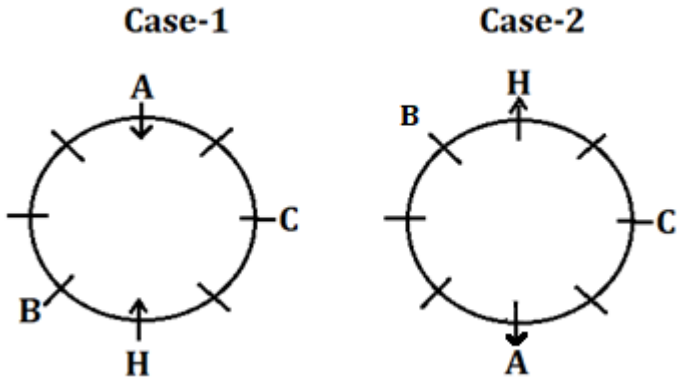
Q80. Neeraj started a business with an investment of Rs. 7500. Prashant joined him after four months by investing Rs. 1000 more than Neeraj. At the end of a year, the profit share of Neeraj is Rs. 900. Find the total profit?

(a) Rs. 1270
(b) Rs. 1180
(c) Rs. 1580
(d) Rs. 1450
(e) Rs. 1360

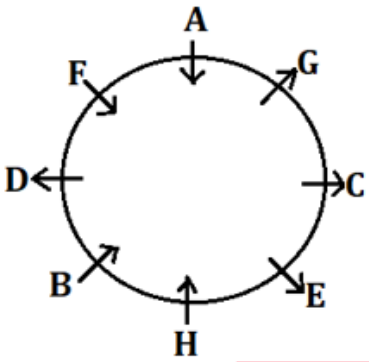
Solutions

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.

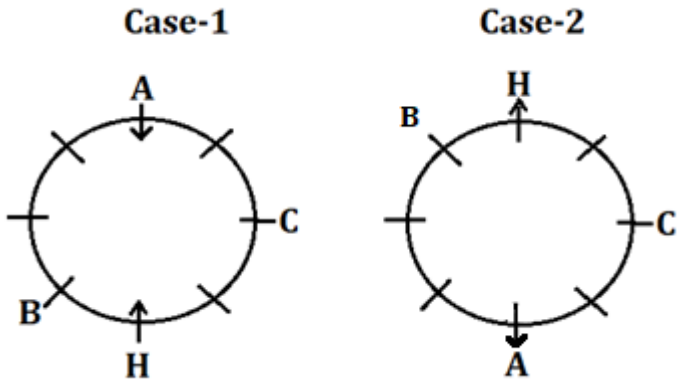


(ii) F is facing E, who is not an immediate neighbor of A. Immediate neighbors of F are facing opposite directions. D is not facing C. G is neither an immediate neighbor of B nor E. Immediate neighbors of G are facing opposite directions. From these conditions case-2 will be eliminated. B is facing G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

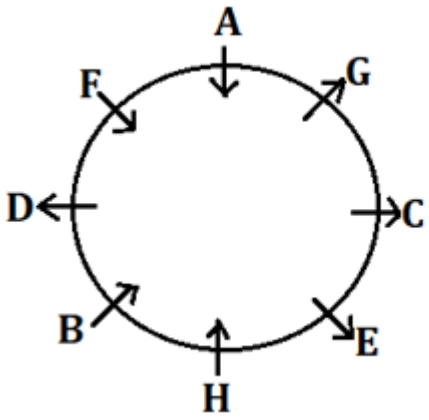


S2. Ans.(a)

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.

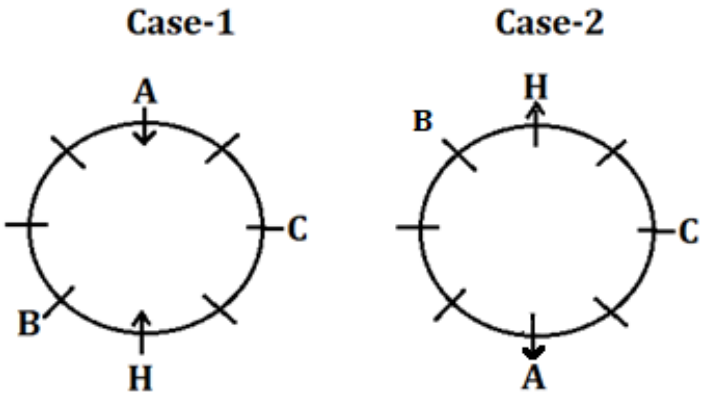


(ii) F is facing E, who is not an immediate neighbor of A. Immediate neighbors of F are facing opposite directions. D is not facing C. G is neither an immediate neighbor of B nor E. Immediate neighbors of G are facing opposite directions. From these conditions case-2 will be eliminated. B is facing G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

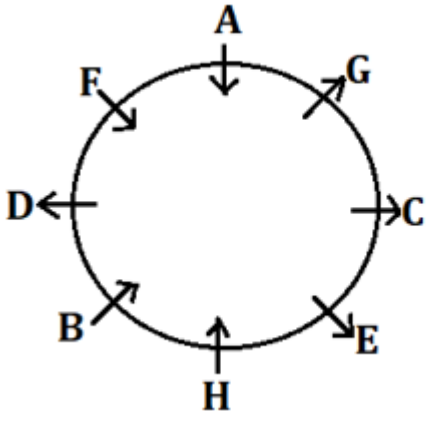


S3. Ans.(c)

Sol. (i) From the 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.

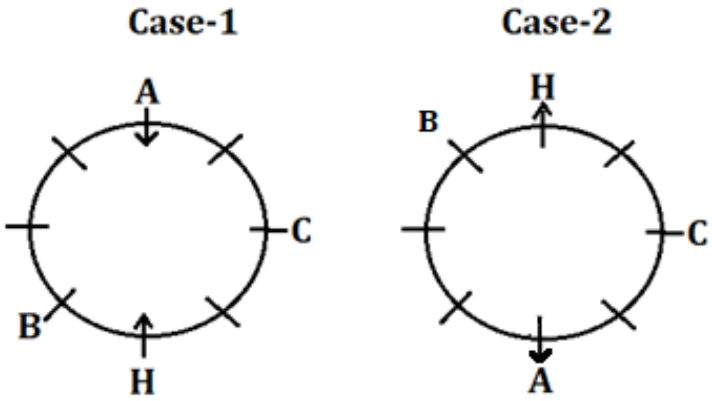


(ii) F is facing E, who is not an immediate neighbor of A. Immediate neighbors of F are facing opposite directions. D is not facing C. G is neither an immediate neighbor of B nor E. Immediate neighbors of G are facing opposite directions. From these conditions case-2 will be eliminated. B is facing G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

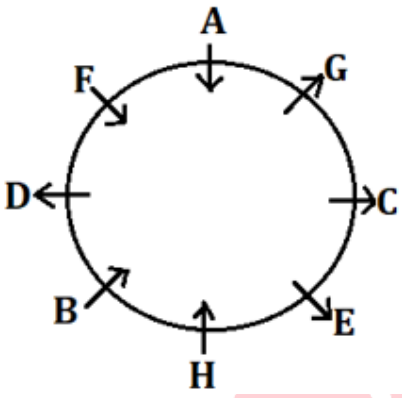


S4. Ans.(b)

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.

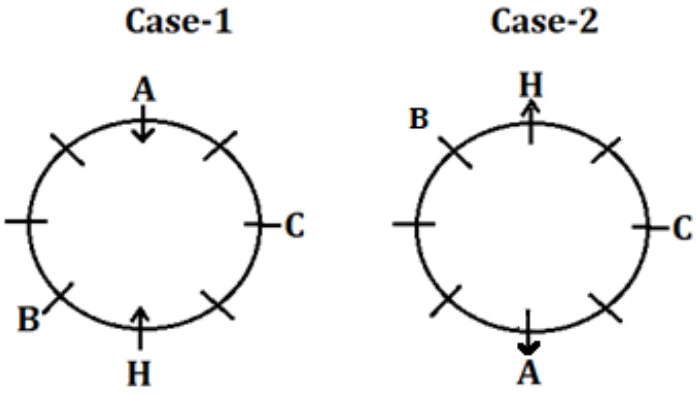


(ii) F is facing E, who is not an immediate neighbor of A. Immediate neighbors of F are facing opposite directions. D is not facing C. G is neither an immediate neighbor of B nor E. Immediate neighbors of G are facing opposite directions. From these conditions case-2 will be eliminated. B is facing G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

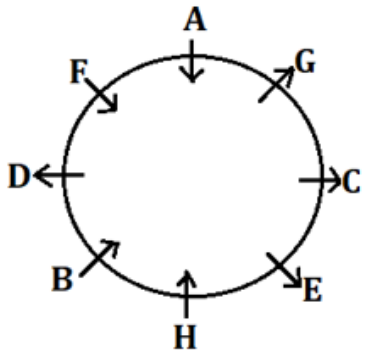


S5. Ans.(e)

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.



(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- REGARDING
After arrangement- ADEGGINRR

S12. Ans.(b)
Sol. Given number-763154921
After Applied given condition- 654245832
2, 4 and 5 are repeated

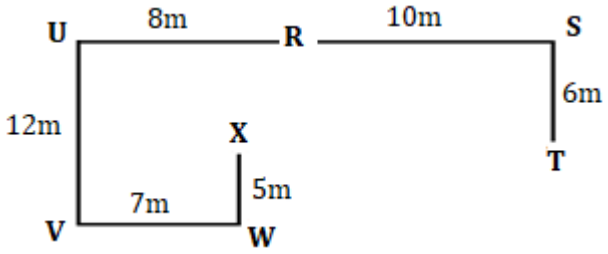
S13. Ans.(d)
Sol. C > Z(101kg) > B > A(89kg) > Y > W

S14. Ans.(d)
Sol. C > Z(101kg) > B > A(89kg) > Y > W

S15. Ans.(d)
Sol. C > Z(101kg) > B > A(89kg) > Y > W

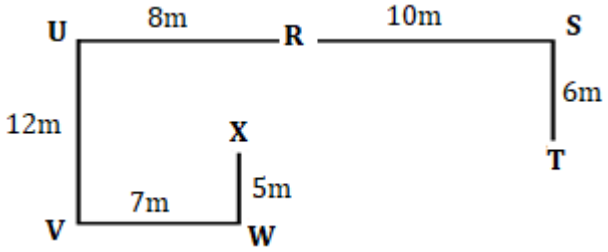
S16. Ans.(b)

Sol.



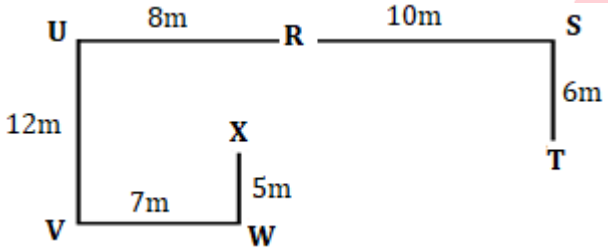
S17. Ans.(d)

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 ≤ E (False) II. C > E (False)

S23. Ans.(b)

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

S24. 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

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 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

S27. Ans.(a)

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

S28. Ans.(c)
Sol. 96, 44, 44

S29. Ans.(b)
Sol. 8

S30. Ans.(d)
Sol. 5
New arrangement - 3 2 5 5 7 6 8 9 6 2 3 5 2 8 5 5 5 5 2 7 8 2 9 7 2 2 5 6 8 2

S31. Ans.(d)
Sol. 10

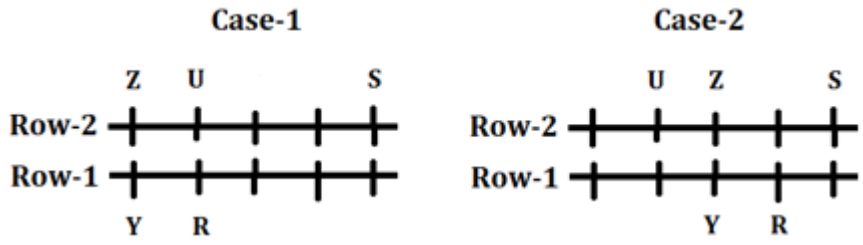
S32. Ans.(c)
Sol. 47, 45 and 97

S33. Ans.(a)
Sol. R(75) > K > T(65) > N > P > X(57)

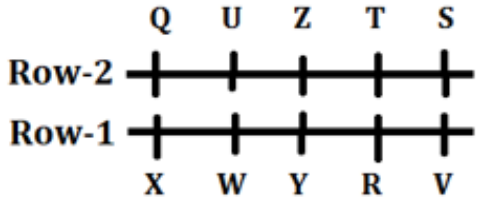
S34. Ans.(a)
Sol. R(75) > K > T(65) > N > P > X(57)

S35. Ans.(e)
Sol. Total number of persons in the row= (18+9-1) =26

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.

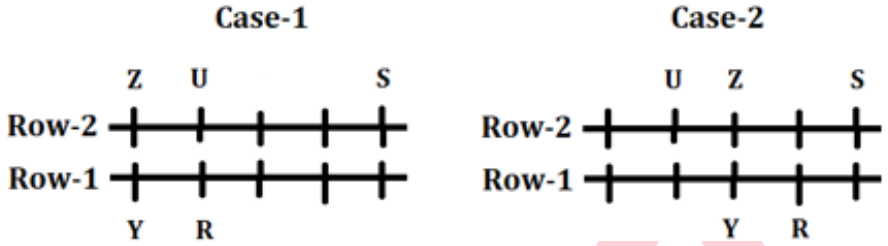


Two persons sit between Q and T. From this condition case-1 will be eliminated. Q sits opposite to X. So, there is only possibility that is Q and T sit in second row. W does not sit at the end. The final arrangement is-

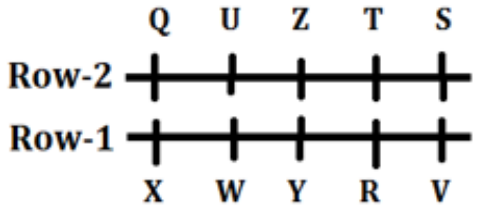


S37. Ans.(d)

Sol. S sits at 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.

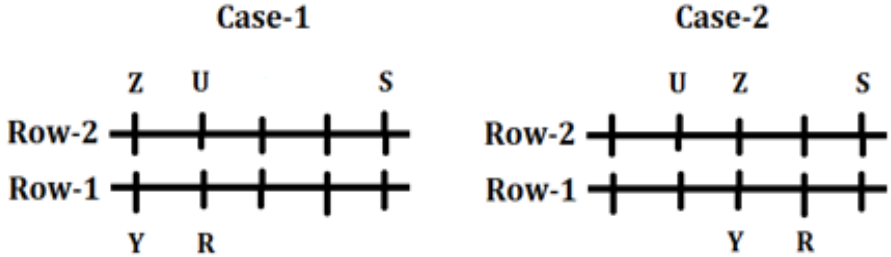


Two persons sit between Q and T. From this condition case-1 will be eliminated. Q sits opposite to X. So, there is only possibility that is Q and T sit in second row. W does not sit at the end. The final arrangement is-

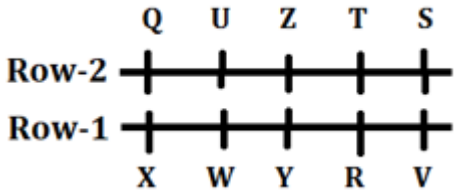


S38. Ans.(c)

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.

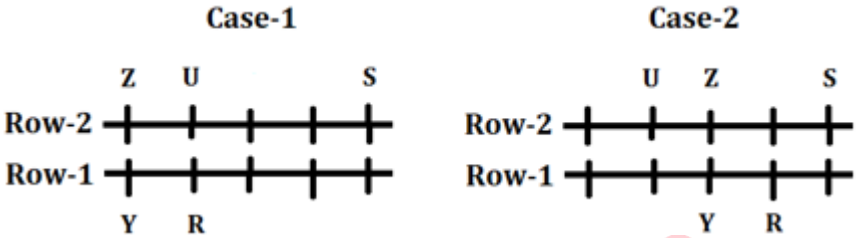


Two persons sit between Q and T. From this condition case-1 will be eliminated. Q sits opposite to X. So, there is only possibility that is Q and T sit in second row. W does not sit at the end. The final arrangement is-

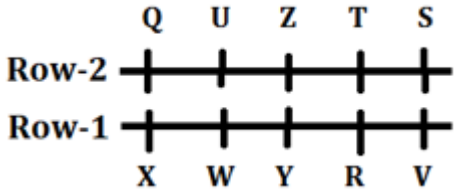


S39. Ans.(a)

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.

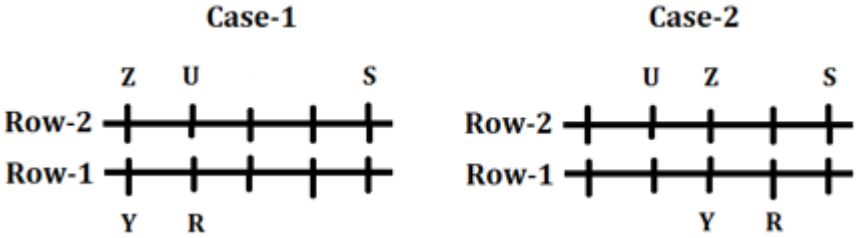


Two persons sit between Q and T. From this condition case-1 will be eliminated. Q sits opposite to X. So, there is only possibility that is Q and T sit in second row. W does not sit at the end. The final arrangement is-

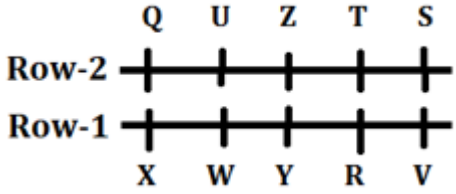


S40. Ans.(c)

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.
Average number of cars sold on Monday & Thursday $= \frac{160+180}{2} = 170$
Total number of bikes sold on Wednesday & Friday together $= 400 + 280 = 680$
So, required percentage $= \frac{170}{680} \times 100 = 25\%$

S42. Ans.(b)
Sol.
Required ratio $= \frac{120+300}{180+320} = \frac{420}{500}$
$= 21 : 25$

S43. Ans.(e)
Sol.
Total number of cars sold on Monday & Friday together $= 160 + 240 = 400$
So, required percentage $= \frac{400-400}{400} \times 100 = 0\%$

S44. Ans.(a)
Sol.
Total number of bikes sold on Saturday $= 280 \times \frac{120}{100} = 336$
Total number bikes sold on Sunday $= 336 \times \frac{125}{100} = 420$

S45. Ans.(d)
Sol.
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.
Quantity of water $= \frac{40}{100} \times 440 = 176$
Quantity of milk $= 440 - 176 = 264$
Required ratio $= \frac{264+66}{176+54}$
$= 330 : 230$
$= 33 : 23$

S48. Ans.(c)

Sol.

Let no. of yellow balls be x.

ATQ

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

$5x = 24 + 2x$

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

So total balls $= 5 + 7 + 8 = 20$

S49. Ans.(d)

Sol.

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

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

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

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.

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

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

S52. Ans.(b)

Sol.

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

Area of square $= 196$

Area of rectangle $= 196 - 100 = 96$

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

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 = $48 + 14 = 62\ kg$

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 = $25x = Rs.4500$

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

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

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

S63. Ans.(d)

Sol.

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

Total number of Bollywood movies watched by students D and E together $= \frac{200\times12}{25} + \frac{375\times9}{25}$

$= 96 + 135 = 231$

Required difference $= 295 - 231 = 64$

S64. Ans.(b)

Sol.

Required ratio $= \frac{250+200}{\frac{400\times9}{20}+\frac{250\times7}{10}+\frac{375\times9}{25}} = \frac{450}{490}$

$= 45 : 49$

S65. Ans.(e)

Sol.

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

S66. Ans.(a)

Sol.

$\frac{400}{100} \times ? + 180 - 140 = 60$

$? = \frac{20}{4} = 5$

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.
Ratio of profit share of Neeraj to Prashant $= 7500 \times 12 : (7500 + 1000) \times 8$
$= 45 : 34$
So, required amount $= 900 \times \frac{(45+34)}{45} = 1580$ Rs.