RRB PO Pre 2022 (21st August) Shift-Wise Previous Year Paper Mock 06

Directions (1-4) : Study the given information and answer the following questions:
Eight persons P, Q, R, S, T, U, V and W are sitting in a straight line at an equal distance between each other, but not necessarily in the same order. Some of them are facing north and some are facing south. V faces to north and sits at one of the extreme ends. Q sits 3rd to the right of S. There are two persons gap between S and V. S is the immediate neighbor of P who sits 2nd to the right of Q. U sits 4th to the right of R. R is neither an immediate neighbor of Q nor S. T does not sit at extreme ends. No two persons sitting adjacent to each other face in the same direction.

Q1. Who among the following sits to the immediate left of S?
(a) Q
(b) P
(c) T
(d) R
(e) None of these

Q2. How many persons sit between Q and R?
(a) One
(b) Two
(c) Three
(d) Four
(e) More than four

Q3. Which among the following pair of persons sit at the extreme ends?
(a) Q, R
(b) W, V
(c) T, S
(d) R, V
(e) None of these

Q4. How many persons are facing the south direction?
(a) One
(b) Two
(c) Three
(d) Four
(e) More than four

Q5. Which of the following would replace % and # respectively in the following expression so that T ≤ P, P>F holds true?
M < S % T ≥ E = D; P ≥ S # L = C > F

(a) >, ≤
(b) ≥, >
(c) ≥, <
(d) >, =
(e) None of these

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

In a certain code language:
"Farmers protest continue union" is written as "ae me le ue".
"Need complete by farmers" is written as "de le te ge".
"Continue need good union" is written as "te ae ue ce".
"Union get by chance" is written as "de ye we ae".

Q6. What is the possible code for "good way complete"?
(a) ce me ge
(b) pe me ge
(c) ce te le
(d) pe ce ge
(e) None of these

Q7. If "Farmers get need" is coded as "ye le te", then what will be the code for "Chance"?
(a) xe
(b) we
(c) ce
(d) de
(e) Can't determined

Q8. What is the code for "By"?
(a) de
(b) te
(c) ae
(d) ue
(e) None of these

Q9. What is the word for the code "me" in the given code language?
(a) Union
(b) Good
(c) Protest
(d) Chance
(e) Get

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Q10. If "Union give continue" is written as "ue ae re", then what will be the code for "Give"?
(a) ae
(b) ue
(c) re
(d) data inadequate
(e) Can't determine

Directions (11-15) : Study the following information carefully and answer the given questions:
Eight persons Anu, Bibha, Chiku, Dev, Ela, Fiza, Golu and Hima will have to attend the meeting in the August and September month but not necessarily in the same order. In each month, they will attend the meeting on dates 1st, 5th, 15th and 17th of the given months. Four persons will attend the meeting on given dates of given month.
Anu will attend the meeting on 5th of September. Three persons will attend the meeting between Anu and Golu. More than two persons will attend the meeting between Dev and Golu. Two persons will attend the meeting between Dev and Hima. Three persons will attend the meeting between Hima and Chiku. Bibha will not attend the meeting immediately before or immediately after the dates on which Hima attend the meeting. Bibha will not attend the meeting on 15th September. Two persons will attend the meeting between Ela and Fiza. Ela will attend the meeting in August month.

Q11. Who among following will attend the meeting on 5th August?
(a) Chiku
(b) Golu
(c) Fiza
(d) Anu
(e) Dev

Q12. How many persons will attend the meeting between Golu and Fiza?
(a) One
(b) Three
(c) Five
(d) Two
(e) Four

Q13. Hima will attend the meeting on which of the following day?
(a) 5th August
(b) 1st August
(c) 17th August
(d) 17th September
(e) None of these

Q14. If Chiku is related to Bibha and Hima is related to Fiza then in the same way Ela is related to?
(a) Chiku
(b) Golu
(c) Fiza
(d) Anu
(e) Dev

Q15. Who among the following will attend the meeting on 1st August?
(a) Chiku
(b) Golu
(c) Fiza
(d) Anu
(e) Dev

Directions (16-18) : In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions.
Give answer as

Q16.
Statements:
$P \leq Q, S \geq T < M < P$
Conclusions:
I. $T < Q$
II. $Q > S$

(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.

Q17.
Statements:
$M<O, K \geq M > F \leq W < Q$
Conclusions:
I. $O > K$
II. $F \geq O$

(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.

Q18.

Statements:

U > T > M > X= S, T ≥ Z > N

Conclusions:

I. N >X

II. N < U

(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.

Q19. How many pairs of letters are there in the word 'EQUIDISTANT', each of which has as many letters between them (both forward and backward direction) in the word as they have between them according to English alphabetical order?

(a) One

(b) Two

(c) Three

(d) Four

(e) None of these

Q20. If in the number 524393156749, position of the 1st digit is interchanged with the position of the 2nd digit and 3rd digit is interchanged with the 4th digit and so on. Then which number will be the 5th from the left end?

(a) 3

(b) 6

(c) 9

(d) 1

(e) 5

Directions (21-24) : In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Q21. Statements:

Some Study are Table.

All Table are PG.

Few Libraries are Table.

Conclusions:

I. Some Library can never be PG.

II. Some Library can be Study.

(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusions I and II follow.

Q22. Statements:
All Cinema are Mean.
Some Mean are Time.
No 3D is Time.
Conclusions:
I. Some Mean are not 3D.
II. Some Cinema can be Time
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusions I and II follow.

Q23. Statements:
Some Blue are Yellow.
Some Red are Pink.
No Blue is Pink.
Conclusions:
I. Some Red can be Yellow.
II. Some Red are not Blue.
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusions I and II follow.

Q24. Statements:
Only a few GW are TP.
Only a Few TP are RX.
All RX are MK.
Conclusions:
I. Some GW can be RX.
II. All TP being RX is a possibility.
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusions I and II follow.

Directions (25-29) : Study the following information carefully and answer the given questions.
Eight persons are sitting around a circular table in such a way that some of them are facing the center while some are facing outside. E sits second to the right of G. B sits third to the left of E. E and B face opposite directions. Immediate neighbors of B face the center. G faces the center. C sits second to the right of B. H sits to the immediate left of C. A sits second to the left of D. D faces the same direction as B and F but opposite to A. D is not an immediate neighbor of G.

Q25. Four of the following five are alike in a certain way based on the given seating arrangement and so form a group. Which is the one that does not belong to that group?
(a) H
(b) F
(c) C
(d) A
(e) D

Q26. Who sits second to the left of H?
(a) G
(b) B
(c) F
(d) Other than those given as options
(e) A

Q27. Which of the following is true regarding F as per the given seating arrangement?
(a) H is one of the immediate neighbour of F
(b) F sits third to the right of E
(c) F faces the center
(d) Only two persons sit between F and G.
(e) Only one person sits between F and A.

Q28. What is C's position with respect to A?
(a) Second to the left
(b) Second to the right
(c) Third to the right
(d) Third to the left
(e) Fourth to the left

Q29. How many persons in the given arrangement face outside?
(a) Three
(b) Two
(c) Four
(d) Five
(e) One

Directions (30-32) : Study the information carefully and answer the questions given below.
A person starts walking from point B in west direction and walks 7m to reach point A. From point A, he takes a right turn and walks 8m to reach point X. From point X, he starts walking in 10m east to reach at point D. From point D, he takes a right turn and walks 12m to reach point Z. From point Z, he starts walks 3m in west direction to reach at point P.

Q30. What is the direction of point B with respect to point Z?
(a) South
(b) North- West
(c) South-East
(d) North
(e) None of these

Q31. What is the shortest distance between point B and point P?
(a) 3m
(b) 6m
(c) 4m
(d) 5m
(e) None of these

Q32. What is the direction of point D with respect to point A?
(a) North-west
(b) South-east
(c) South-west
(d) North-east
(e) None of these

Directions (33-34) : Study the following information carefully and answer the questions given below:
In a family of seven people, there are two couples and three generations. Q is the grandchild of Z. Z is married to A. K is the father of Q. A is father in law of F. K is brother of D and C. C is uncle of Q. There are four females in this family. C and D are unmarried.

Q33. How F is related to Q?
(a) Aunt
(b) Sister
(c) Mother
(d) Niece
(e) None of these

Q34. How D is related to A?
(a) Sister-in-law
(b) Son
(c) Mother
(d) Daughter
(e) None of these

Directions (35-38) : Study the following information carefully and answer the questions given below.
Seven persons have different designations in a company i.e. General Manager (GM) , Deputy General Manager (DGM) , Assistant General Manager (AGM) , Manager, Assistant Manager (AM) , Probationary Officer (PO) , and Clerk. The order of seniority is the same as given above i.e. GM is the senior-most designation and Clerk is the junior-most designation.
M is senior to the one who is the manager. More than two designations are there between M and N who is not PO. There is one designation is between N and H. There are as many designations between M and S as between S and H. S is not DGM. One designation is there between S and P who is senior to R. Q is junior to R.

Q35. How many persons are senior to Q?
(a) Two
(b) Four
(c) Three
(d) Five
(e) More than five

Q36. Who among the following persons is the AGM of the company?
(a) R
(b) S
(c) N
(d) P
(e) None of these

Q37. Who among the following persons is the AM of the company?
(a) S
(b) R
(c) N
(d) P
(e) None of these

Q38. Which of the following combination is correctly matched?
(a) H-PO
(b) P-DGM
(c) S-AGM
(d) N-Clerk
(e) None is correct

Q39. In a row of student, Avika is 20th from the right end and Veer is 14th from the left end. After interchanging their initial positions then what is the position of Avika from the left?
(a) 10
(b) 9
(c) 20
(d) 14
(e) None of these

Q40. The position of how many alphabets will remain unchanged if each of the alphabet in the word 'RELIGIOUS' is arranged in alphabetical order from left to right?
(a) Two
(b) One
(c) None
(d) Three
(e) Four

Q41. A can do a piece of work in eighteen days, while B and C together can do the same work in six days. If the ratio of efficiency B to A is 8 : 5, then find in how many days C can complete the same work alone?
(a) $11\frac{1}{7}$ days
(b) $13\frac{1}{4}$ days
(c) $11\frac{6}{7}$ days
(d) $12\frac{6}{7}$ days
(e) $13\frac{1}{7}$ days

Q42. Speed of a boat in still water is 3.5 km/hr. If the time taken by boat to cover a certain distance in upstream is 250% of the same distance cover in downstream, then find the speed of the stream?

(a) $\frac{5}{2}$km/hr

(b) $\frac{3}{2}$km/hr

(c) 3 km/hr

(d) $\frac{5}{4}$ km/hr

(e) 1.75 km/hr

Q43. Manoj & Nilu invested Rs. 'P' and Rs. 6000 respectively, while Manoj left the business after eight months. If Manoj got 50% less profit than Nilu at the end of one year, then find 'P'?

(a) Rs 4800

(b) Rs 5500

(c) Rs 4200

(d) Rs 4500

(e) Rs 5000

Q44. A is three years elder than B and after two years the ratio of age of A to that of B will be 5 : 4. Find the average of age of A and B after four years? (in years) ?

(a) 15.5

(b) 11.5

(c) 12.5

(d) 14.5

(e) 13.5

Q45. A train running at the speed of 180 kmph passes a pole in 36 second, in how much time the train can cross 1200 meters long another train, which running in opposite direction with the speed of 108 kmph?

(a) 32.5 second

(b) 37.5 second

(c) 35.5 second

(d) 30.5 second

(e) 27.5 second

Directions (46-50) :- What approximate value should come in place of question mark (?) in following questions.

Q46. 17.97% of $649.9 - 8.02\%$ of $1149.99 = ?^2$

(a) 4

(b) 5

(c) 3

(d) 6

(e) 7

Q47. $\frac{?-7.97}{12.04+8.02} \times (5.997)^2 = 72$

(a) 48
(b) 36
(c) 54
(d) 32
(e) 40

Q48. $30.08\%\ \text{of}\ \frac{4}{7}th\ of\ \frac{1}{8}th\ \text{of}\ 419.91 = ?$

(a) 6
(b) 18
(c) 15
(d) 12
(e) 9

Q49. $719.97 \div 80.02 \div 60.07 \times 119.97$

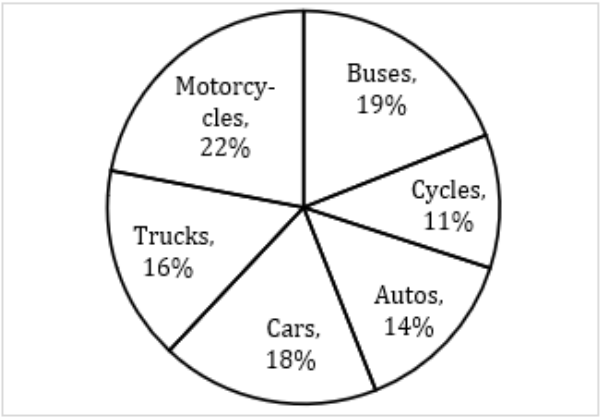
(a) 14
(b) 20
(c) 18
(d) 10
(e) 24

Q50. $899.9 \times 25.02 \div 36.01 = (? + 17.01)^2$

(a) 10
(b) 5
(c) 18
(d) 12
(e) 8

Directions (51-55) : The following pie–chart shows the percentage break–up of accidents due to various vehicles in a city.

Total number of accidents = 24,000 (including both male and females)



Q51. Find the average number of accidents that are due to motorcycles, Buses and cars?
(a) 4,620
(b) 4,820
(c) 4,720
(d) 4,520
(e) 4,500

Q52. Out of the total number of accidents caused by trucks and autos together, the ratio of Death to Injuries is 13 : 11. Then find the number of injuries caused by these two vehicles.
(a) 3,300
(b) 3,900
(c) 4,400
(d) 3,410
(e) 3,850

Q53. If in total number of accidents 62 ½ % are male. Male accidents due to cars and cycles is 40% of total male accidents, then find the number of female accidents due to cars and cycles together?
(a) 720
(b) 900
(c) 600
(d) 960
(e) 840

Q54. Find the difference of the central angle corresponding to the number of accidents due to motorcycles and autos together and Trucks and cycles together.
(a) 35°
(b) 33.4°
(c) 32.4°
(d) 35.4°
(e) 36°

Q55. Out of total accidents, 48% are resulted into spot deaths, which are only 6 ¼ % of the total population of city. Then, find the number of female population, if the ratio of male to female is 13 : 11 in the city.
(a) 84,480
(b) 82,480
(c) 86,480
(d) 86,640
(e) 84,680

Directions (56-60) : In each of the following questions, two equations (I) and (II) are given, you have to solve both the equations and give answer.

Q56.

I. $x^2 + x - 6 = 0$

II. $y^2 + 7y + 11 = -1$

(a) If x > y

(b) If x ≥ y

(c) If x < y

(d) If x ≤ y

(e) If x = y or no relation can be established between x and y.

Q57.

I. $2x^2 - 17x + 35 = 0$

II. $4y^2 - 19y + 21 = 0$

(a) If x > y

(b) If x ≥ y

(c) If x < y

(d) If x ≤ y

(e) If x = y or no relation can be established between x and y.

Q58.

I. $\sqrt[3]{x - 512} = 11$

II. $y + 353 = 13^3$

(a) If x > y

(b) If x ≥ y

(c) If x < y

(d) If x ≤ y

(e) If x = y or no relation can be established between x and y.

Q59.

I. $x^2 + 39x = -380$

II. $y^2 + 37y = -342$

(a) If x > y

(b) If x ≥ y

(c) If x < y

(d) If x ≤ y

(e) If x = y or no relation can be established between x and y.

Q60.

I. $x - \frac{2}{x} = \frac{2}{x}$

II. $y^2 - 2y + 1 = 0$

(a) If x > y
(b) If x ≥ y
(c) If x < y
(d) If x ≤ y
(e) If x = y or no relation can be established between x and y.

Directions(61-65) : Read the data carefully and answer the following questions.
People take subscription of Sonysix for watching three games Hockey, Cricket and Football. The ratio of male who take subscription for watching Hockey to that of for Cricket is 5 : 6. Females who take subscription for watching Cricket are 1000 less than the females who take subscription for watching Hockey. Male and Female who take subscription for watching Football are 16750 and 18500 respectively. Total male who take subscription for watching Cricket are 4000 less than total female who take subscription for watching cricket. Average of male and female who take subscription for watching cricket is 17000.

Q61. Total male who take subscription for watching Cricket & Hockey together are how many more/less than total female who take subscription for watching Football & Cricket together?
(a) 10000
(b) 12000
(c) 5000
(d) 8000
(e) 7000

Q62. Total male who take subscription for watching Football is what percent more than total male who take subscription for watching cricket?
(a) 18 ⅔%
(b) 8 ⅔%
(c) 11 ⅔%
(d) 15 ⅔%
(e) 12 ⅔%

Q63.What is the average of male who take subscription for watching Hockey, Football and Cricket?
(a) 14500
(b) 13600
(c) 11750
(d) 14750
(e) 15500

Q64. If total female who take subscription for watching Tennis are 40% of total female who take subscription for watching Hockey, Football and Cricket together, then how many females who take subscription for watching Tennis?

(a) 11500
(b) 12500
(c) 23000
(d) 25000
(e) None of these

Q65. Total male who take subscription for watching Hockey, Football and Cricket together are how many more/less than total female who take subscription for watching Hockey, Football and Cricket together?
(a) 15000
(b) 13250
(c) 10200
(d) 15500
(e) 10000

Directions (66-70) : Table given below shows total number of students who appeared for SBI clerk pre-exam in a computer lab in three different shifts on five days. Read the data carefully and answer the following questions?

Day	Shift1	Shift 2	Shift 3
Day1	750	600	750
Day2	900	900	1050
Day3	600	800	900
Day4	1050	525	600
Day5	750	400	800

Q66. Total number of students appeared in shift1 & shift2 together of day2 are approximately what percent more or less than total number of students appeared in shift3 of day1 & day3 together?
(a) 11.11%
(b) 9.09%
(c) 8.25%
(d) 11.33%
(e) 9.11%

Q67. If 40% of students appeared in shift2 of day4 are girls, then find number of boys appeared in shift2 of day4 are how much less than total students appeared in same shift of day5?
(a) 190
(b) 105
(c) 85
(d) 90
(e) 120

Q68. Find the average number of students appeared in shift3 of all five days?
(a) 800
(b) 820
(c) 810
(d) 815
(e) 805

Q69. If 0.4% and 0.75% of students appeared in shift1 & shift3 of day1 and day5 respectively cleared the pre-exam, then find the ratio of students who cleared pre-exam in shift3 of day5 to that of in shift1 of day1?
(a) 1:2
(b) 3:2
(c) 4:3
(d) 2:3
(e) 2:1

Q70. Total number of students appeared in shift2 of day4 are what percent of total number of students appeared in shift3 of the same day?
(a) 45%
(b) 87.5%
(c) 62.5%
(d) 75%
(e) 60%

Q71. A man invested Rs. 4000 at the rate of X% p.a. on simple interest and get Rs. 5440 as amount after three years. Find the value of (X + 3) ?
(a) 9
(b) 21
(c) 18
(d) 15
(e) 12

Q72. Sum of circumference of circle and perimeter of the square is 204 cm and ratio of radius of circle to side of square is 7 : 6. Find the area of square (in cm^2) .
(a) 324
(b) 400
(c) 441
(d) 256
(e) 576

Q73. Pipe A and B alone can fill a tank in 'x' hours and 'x+10' hours respectively. If both pipes together fill the tank in 12 hours, then the time taken by B alone to fill the tank is what percent of that of A alone?
(a) None of these
(b) 175%
(c) 125%
(d) 200%
(e) 150%

Q74. 80 liters solutions of sugar and water in the ratio of 2: 3 is mixed with 120 liters solutions of sugar and water. Find the ratio of sugar to water in 120 liters solution, if percentage of sugar in final solution is 38.5%?
(a) 3:2
(b) 2:3
(c) 3:5
(d) 7:13
(e) 5:7

Q75. A man buys an article and marks it up 30 % above its cost price. At the time of sale, he gives 10% discount instead of 15% due to which he earns Rs. 13 more. Find cost price of the article?
(a) Rs. 230
(b) None of these
(c) Rs. 150
(d) Rs. 130
(e) Rs. 200

Directions (76-80) : Find out the missing term in the given number series.

Q76. 2 8, 40, 240, 1680, ?
(a) 12440
(b) 13440
(c) 14440
(d) 11440
(e) 10440

Q77. 1, 6, 16, 31, 51, ?
(a) 79
(b) 72
(c) 74
(d) 76
(e) 77

Q78. 4096, 1024, 512, 128, 64, ?
(a) 2
(b) 4
(c) 32
(d) 8
(e) 16

Q79. 21, 42, 64, 87, 111, ?
(a) 136
(b) 126
(c) 145
(d) 129
(e) 121

Q80. 65, 126, 217, 344, 513, ?
(a) 728
(b) 730
(c) 731
(d) 729
(e) 733

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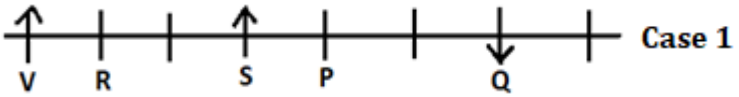
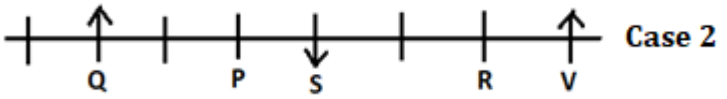
Solutions

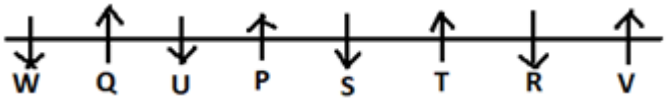
S1. Ans.(c)

Sol. From the given statement, V faces to north and sits at one of the extreme ends. There are two persons sit between S and V. Q sits 3rd to the right of S. S is the immediate neighbor of P who sits 2nd to the right of Q. R is neither an immediate neighbor of Q nor S. Here we get 2 possible cases- Case 1 and Case 2.



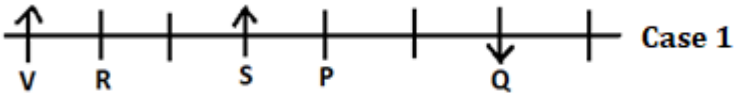


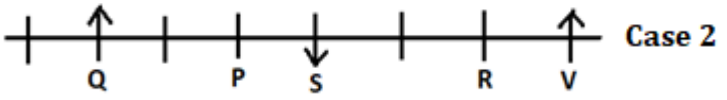
U sits 4th to the right of R. T does not sit at extreme ends. No two-person sitting adjacent to each other face the same direction. Hence CASE 1 gets cancelled. Final arrangement will be,



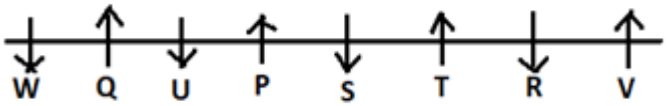
S2. Ans.(d)

Sol. From the given statement, V faces to north and sits at one of the extreme ends. There are two persons sit between S and V. Q sits 3rd to the right of S. S is the immediate neighbor of P who sits 2nd to the right of Q. R is neither an immediate neighbor of Q nor S. Here we get 2 possible cases- Case 1 and Case 2.



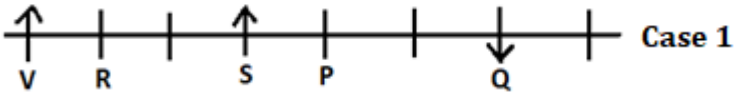


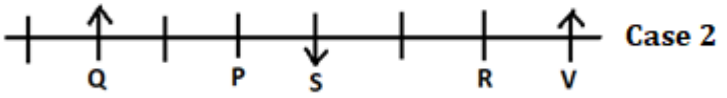
U sits 4th to the right of R. T does not sit at extreme ends. No two-person sitting adjacent to each other face the same direction. Hence CASE 1 gets cancelled. Final arrangement will be,



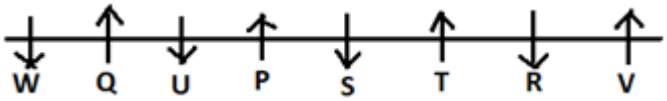
S3. Ans.(b)

Sol. From the given statement, V faces to north and sits at one of the extreme ends. There are two persons sit between S and V. Q sits 3rd to the right of S. S is the immediate neighbor of P who sits 2nd to the right of Q. R is neither an immediate neighbor of Q nor S. Here we get 2 possible cases- Case 1 and Case 2.



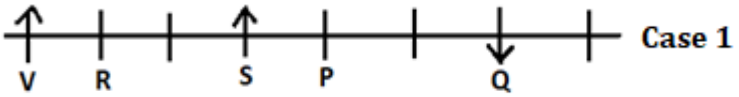


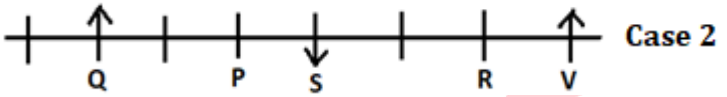
U sits 4th to the right of R. T does not sit at extreme ends. No two-person sitting adjacent to each other face the same direction. Hence CASE 1 gets cancelled. Final arrangement will be,



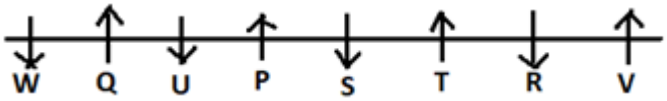
S4. Ans.(d)

Sol. From the given statement, V faces to north and sits at one of the extreme ends. There are two persons sit between S and V. Q sits 3rd to the right of S. S is the immediate neighbor of P who sits 2nd to the right of Q. R is neither an immediate neighbor of Q nor S. Here we get 2 possible cases- Case 1 and Case 2.





U sits 4th to the right of R. T does not sit at extreme ends. No two-person sitting adjacent to each other face the same direction. Hence CASE 1 gets cancelled. Final arrangement will be,



S5. Ans.(b)

S6. Ans.(d)

Sol.

Word	Code
Farmers	le
Protest	me
Continue	ue
Union	ae
Need	te
Complete	ge
By	de
Good	ce
Get/Chance	ye/we

S7. Ans.(b)

Sol.

Word	Code
Farmers	le
Protest	me
Continue	ue
Union	ae
Need	te
Complete	ge
By	de
Good	ce
Get/Chance	ye/we

S8. Ans.(a)

Sol.

Word	Code
Farmers	le
Protest	me
Continue	ue
Union	ae
Need	te
Complete	ge
By	de
Good	ce
Get/Chance	ye/we

S9. Ans.(c)

Sol.

Word	Code
Farmers	le
Protest	me
Continue	ue
Union	ae
Need	te
Complete	ge
By	de
Good	ce
Get/Chance	ye/we

S10. Ans.(c)

Sol.

Word	Code
Farmers	le
Protest	me
Continue	ue
Union	ae
Need	te
Complete	ge
By	de
Good	ce
Get/Chance	ye/we

S11. Ans.(b)

Sol. From the given statement, Anu will attend the meeting on 5th of September. Three persons will attend the meeting between Anu and Golu. More than two persons will attend the meeting between Dev and Golu. Two persons will attend the meeting between Dev and Hima. Three persons will attend the meeting between Hima and Chiku. Therefore, there will be two possible cases-

Months	Dates	Case 1	Case 2
		Persons	Persons
August	1	Chiku	
	5	Golu	Golu
	15		
	17		Hima
September	1	Hima	
	5	Anu	Anu
	15		Dev
	17	Dev	Chiku

Bibha will not attend the meeting immediately before or immediately after the dates on which Hima attend the meeting. Bibha will not attend the meeting on 15th September. Two persons will attend the meeting between Ela and Fiza. Here Case-2 is ruled out now. Also, Ela will attend the meeting in August month. Final arrangement will be-

Month	Date	Persons
August	1	Chiku
	5	Golu
	15	Bibha
	17	Ela
September	1	Hima
	5	Anu
	15	Fiza
	17	Dev

S12. Ans.(e)

Sol. From the given statement, Anu will attend the meeting on 5th of September. Three persons will attend the meeting between Anu and Golu. More than two persons will attend the meeting between Dev

and Golu. Two persons will attend the meeting between Dev and Hima. Three persons will attend the meeting between Hima and Chiku. Therefore, there will be two possible cases-

Months	Dates	Case 1	Case 2
		Persons	Persons
August	1	Chiku	
	5	Golu	Golu
	15		
	17		Hima
September	1	Hima	
	5	Anu	Anu
	15		Dev
	17	Dev	Chiku

Bibha will not attend the meeting immediately before or immediately after the dates on which Hima attend the meeting. Bibha will not attend the meeting on 15th September. Two persons will attend the meeting between Ela and Fiza. Here Case-2 is ruled out now. Also, Ela will attend the meeting in August month. Final arrangement will be-

Month	Date	Persons
August	1	Chiku
	5	Golu
	15	Bibha
	17	Ela
September	1	Hima
	5	Anu
	15	Fiza
	17	Dev

S13. Ans.(e)

Sol. From the given statement, Anu will attend the meeting on 5th of September. Three persons will attend the meeting between Anu and Golu. More than two persons will attend the meeting between Dev and Golu. Two persons will attend the meeting between Dev and Hima. Three persons will attend the meeting between Hima and Chiku. Therefore, there will be two possible cases-

Months	Dates	Case 1	Case 2
		Persons	Persons
August	1	Chiku	
	5	Golu	Golu
	15		
	17		Hima
September	1	Hima	
	5	Anu	Anu
	15		Dev
	17	Dev	Chiku

Bibha will not attend the meeting immediately before or immediately after the dates on which Hima attend the meeting. Bibha will not attend the meeting on 15th September. Two persons will attend the meeting between Ela and Fiza. Here Case-2 is ruled out now. Also, Ela will attend the meeting in August month. Final arrangement will be-

Month	Date	Persons
August	1	Chiku
	5	Golu
	15	Bibha
	17	Ela
September	1	Hima
	5	Anu
	15	Fiza
	17	Dev

S14. Ans.(d)

Sol. From the given statement, Anu will attend the meeting on 5th of September. Three persons will attend the meeting between Anu and Golu. More than two persons will attend the meeting between Dev and Golu. Two persons will attend the meeting between Dev and Hima. Three persons will attend the meeting between Hima and Chiku. Therefore, there will be two possible cases-

Months	Dates	Case 1	Case 2
		Persons	Persons
August	1	Chiku	
	5	Golu	Golu
	15		
	17		Hima
September	1	Hima	
	5	Anu	Anu
	15		Dev
	17	Dev	Chiku

Bibha will not attend the meeting immediately before or immediately after the dates on which Hima attend the meeting. Bibha will not attend the meeting on 15th September. Two persons will attend the meeting between Ela and Fiza. Here Case-2 is ruled out now. Also, Ela will attend the meeting in August month. Final arrangement will be-

Month	Date	Persons
August	1	Chiku
	5	Golu
	15	Bibha
	17	Ela
September	1	Hima
	5	Anu
	15	Fiza
	17	Dev

S15. Ans.(a)

Sol. From the given statement, Anu will attend the meeting on 5th of September. Three persons will attend the meeting between Anu and Golu. More than two persons will attend the meeting between Dev and Golu. Two persons will attend the meeting between Dev and Hima. Three persons will attend the meeting between Hima and Chiku. Therefore, there will be two possible cases-

Months	Dates	Case 1	Case 2
		Persons	Persons
August	1	Chiku	
	5	Golu	Golu
	15		
	17		Hima
September	1	Hima	
	5	Anu	Anu
	15		Dev
	17	Dev	Chiku

Bibha will not attend the meeting immediately before or immediately after the dates on which Hima attend the meeting. Bibha will not attend the meeting on 15th September. Two persons will attend the meeting between Ela and Fiza. Here Case-2 is ruled out now. Also, Ela will attend the meeting in August month. Final arrangement will be-

Month	Date	Persons
August	1	Chiku
	5	Golu
	15	Bibha
	17	Ela
September	1	Hima
	5	Anu
	15	Fiza
	17	Dev

S16. Ans.(a)

Sol. I. T < Q (True) II. Q > S (False)

S17. Ans.(d)

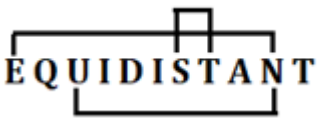
Sol. I. O > K (False) II. F ≥ O (False)

S18. Ans.(b)

Sol. I. N >X (False) II. N < U (True)

S19. Ans.(c)

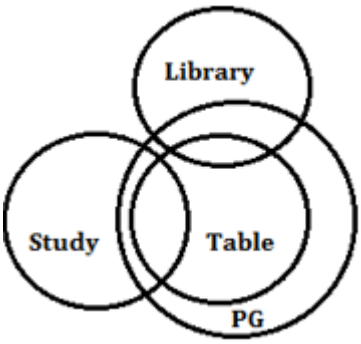
Sol.



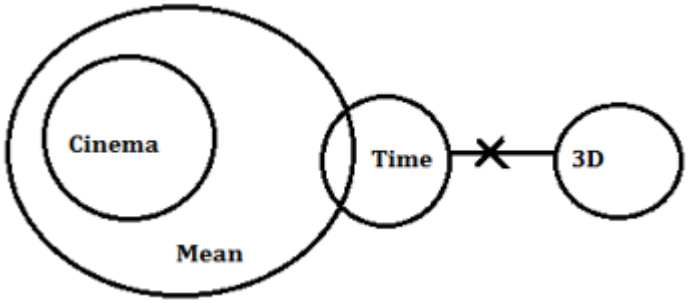
S20. Ans.(a)

Sol. New number after modified – 2 5 3 4 **3** 9 5 1 7 6 9 4

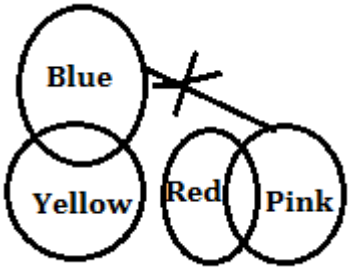
S21. Ans.(b)
Sol.



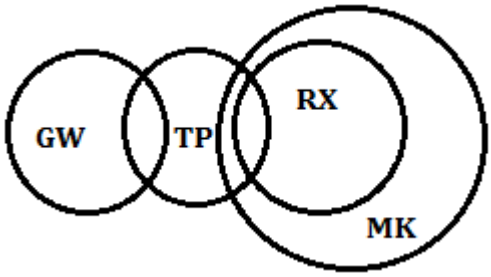
S22. Ans.(e)
Sol.



S23. Ans.(e)
Sol.

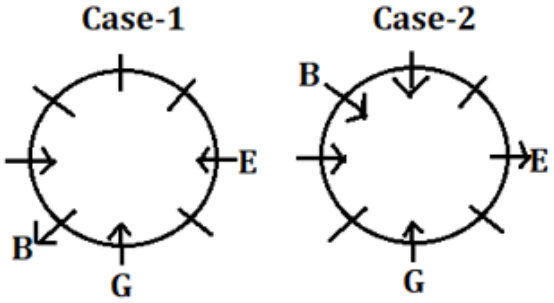


S24. Ans.(a)
Sol.

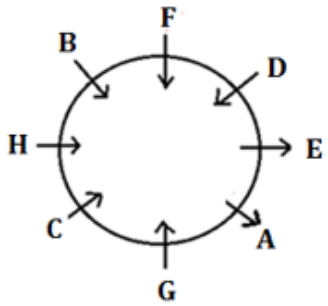


S25. Ans.(d)

Sol. E sits second to the right of G. G faces the center. B sits third to the left of E. There are two possibilities. E and B face opposite directions. Immediate neighbors of B face the center.

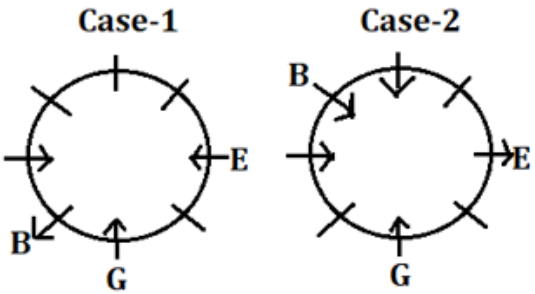


C sits second to the right of B. H sits to the immediate left of C. A sits second to the left of D. D faces the same direction as B and F but opposite to A. D is not an immediate neighbor of G. From this condition case-1 will be eliminated and the final arrangement is-

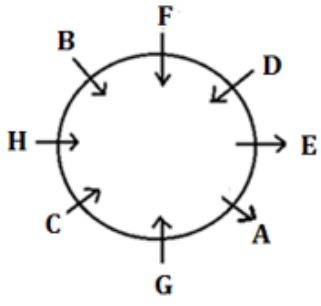


S26. Ans.(c)

Sol. E sits second to the right of G. G faces the center. B sits third to the left of E. There are two possibilities. E and B face opposite directions. Immediate neighbors of B face the center.

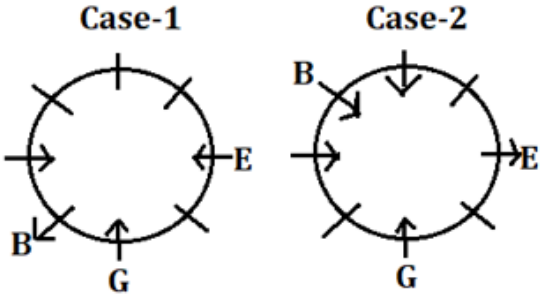


C sits second to the right of B. H sits to the immediate left of C. A sits second to the left of D. D faces the same direction as B and F but opposite to A. D is not an immediate neighbor of G. From this condition case-1 will be eliminated and the final arrangement is-

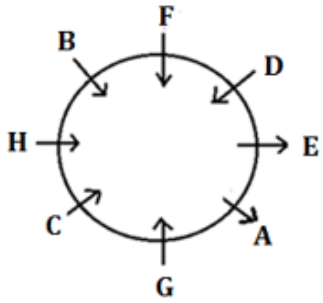


S27. Ans.(c)

Sol. E sits second to the right of G. G faces the center. B sits third to the left of E. There are two possibilities. E and B face opposite directions. Immediate neighbors of B face the center.

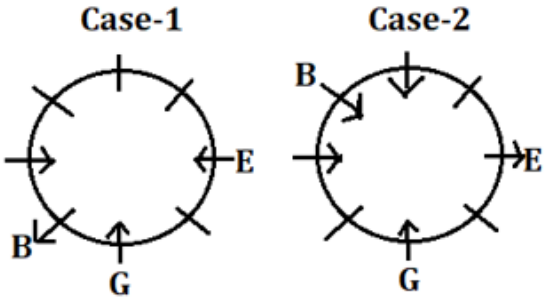


C sits second to the right of B. H sits to the immediate left of C. A sits second to the left of D. D faces the same direction as B and F but opposite to A. D is not an immediate neighbor of G. From this condition case-1 will be eliminated and the final arrangement is-

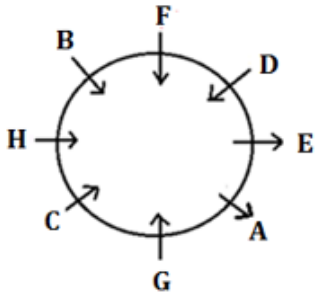


S28. Ans.(b)

Sol. E sits second to the right of G. G faces the center. B sits third to the left of E. There are two possibilities. E and B face opposite directions. Immediate neighbors of B face the center.

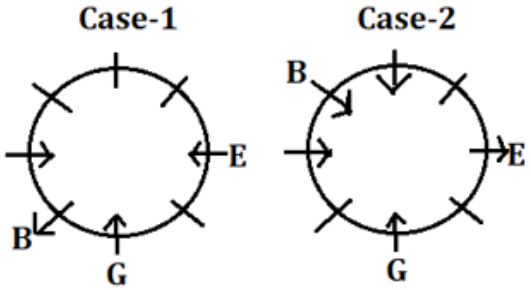


C sits second to the right of B. H sits to the immediate left of C. A sits second to the left of D. D faces the same direction as B and F but opposite to A. D is not an immediate neighbor of G. From this condition case-1 will be eliminated and the final arrangement is-

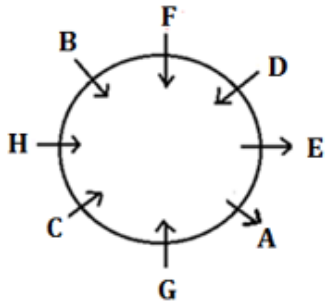


S29. Ans.(b)

Sol. E sits second to the right of G. G faces the center. B sits third to the left of E. There are two possibilities. E and B face opposite directions. Immediate neighbors of B face the center.

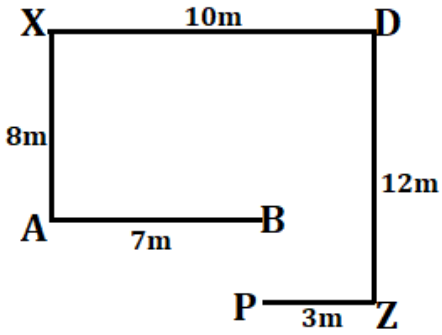


C sits second to the right of B. H sits to the immediate left of C. A sits second to the left of D. D faces the same direction as B and F but opposite to A. D is not an immediate neighbor of G. From this condition case-1 will be eliminated and the final arrangement is-



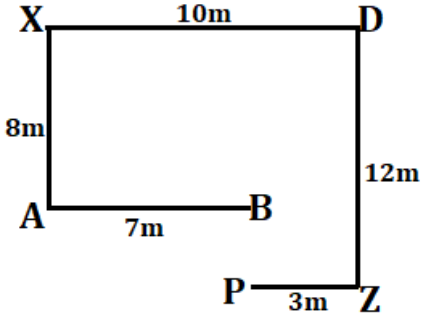
S30. Ans.(b)

Sol.

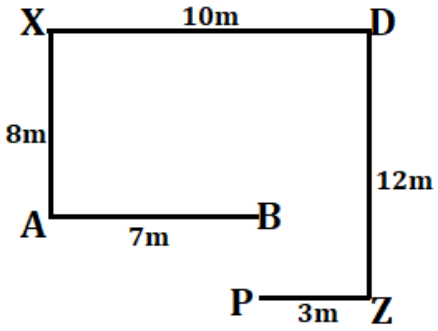


S31. Ans.(c)

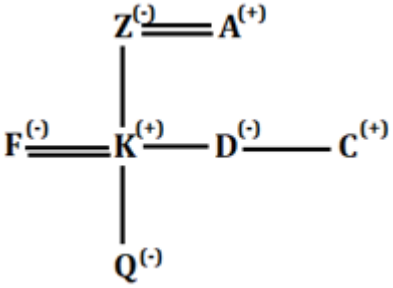
Sol.



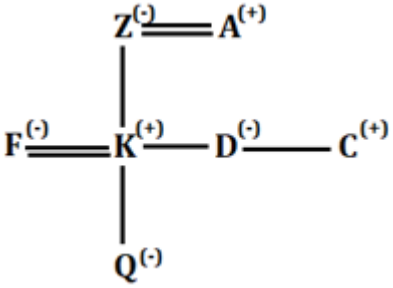
S32. Ans.(d)
Sol.



S33. Ans.(c)
Sol.



S34. Ans.(d)
Sol.



S35. Ans.(d)
Sol. From the given statements, M is senior to the one who is manager. More than two designations are there between M and N who is not PO. There is one designation is between N and H. Here we get four possibilities i.e., case-1, case-2, case-3 and case-4.

Designation	Case-1 Persons	Case-2 Persons	Case-3 Persons	Case-4 Persons
GM			M	M
DGM		M		
AGM	M		H/	
Manager				
AM	H	H	N	H
PO				
Clerk	N	N	H/	N

Now there are as many designations between M and S as between S and H. Here case-2 is ruled out. S is not DGM. One designation is there between S and P who is senior to R. Here case-4 ruled out.

Designation	Case-1 Persons	Case-3 Persons
GM		M
DGM	P	P
AGM	M	R/
Manager	S	S
AM	H	N
PO	R	R/
Clerk	N	H

Now, Q is junior to R. here case-1 ruled out. So, the final arrangement will be:

Designation	Persons
GM	M
DGM	P
AGM	R
Manager	S
AM	N
PO	Q
Clerk	H

S36. Ans.(a)

Sol. From the given statements, M is senior to the one who is manager. More than two designations are there between M and N who is not PO. There is one designation is between N and H. Here we get four possibilities i.e., case-1, case-2, case-3 and case-4.

Designation	Case-1 Persons	Case-2 Persons	Case-3 Persons	Case-4 Persons
GM			M	M
DGM		M		
AGM	M		H/	
Manager				
AM	H	H	N	H
PO				
Clerk	N	N	H/	N

Now there are as many designations between M and S as between S and H. Here case-2 is ruled out. S is not DGM. One designation is there between S and P who is senior to R. Here case-4 ruled out.

Designation	Case-1 Persons	Case-3 Persons
GM		M
DGM	P	P
AGM	M	R/
Manager	S	S
AM	H	N
PO	R	R/
Clerk	N	H

Now, Q is junior to R. here case-1 ruled out. So, the final arrangement will be:

Designation	Persons
GM	M
DGM	P
AGM	R
Manager	S
AM	N
PO	Q
Clerk	H

S37. Ans.(c)

Sol. From the given statements, M is senior to the one who is manager. More than two designations are there between M and N who is not PO. There is one designation is between N and H. Here we get four possibilities i.e., case-1, case-2, case-3 and case-4.

Designation	Case-1 Persons	Case-2 Persons	Case-3 Persons	Case-4 Persons
GM			M	M
DGM		M		
AGM	M		H/	
Manager				
AM	H	H	N	H
PO				
Clerk	N	N	H/	N

Now there are as many designations between M and S as between S and H. Here case-2 is ruled out. S is not DGM. One designation is there between S and P who is senior to R. Here case-4 ruled out.

Designation	Case-1 Persons	Case-3 Persons
GM		M
DGM	P	P
AGM	M	R/
Manager	S	S
AM	H	N
PO	R	R/
Clerk	N	H

Now, Q is junior to R. here case-1 ruled out. So, the final arrangement will be:

Designation	Persons
GM	M
DGM	P
AGM	R
Manager	S
AM	N
PO	Q
Clerk	H

S38. Ans.(b)

Sol. From the given statements, M is senior to the one who is manager. More than two designations are there between M and N who is not PO. There is one designation is between N and H. Here we get four possibilities i.e., case-1, case-2, case-3 and case-4.

Designation	Case-1 Persons	Case-2 Persons	Case-3 Persons	Case-4 Persons
GM			M	M
DGM		M		
AGM	M		H/	
Manager				
AM	H	H	N	H
PO				
Clerk	N	N	H/	N

Now there are as many designations between M and S as between S and H. Here case-2 is ruled out. S is not DGM. One designation is there between S and P who is senior to R. Here case-4 ruled out.

Designation	Case-1 Persons	Case-3 Persons
GM		M
DGM	P	P
AGM	M	R/
Manager	S	S
AM	H	N
PO	R	R/
Clerk	N	H

Now, Q is junior to R. here case-1 ruled out. So, the final arrangement will be:

Designation	Persons
GM	M
DGM	P
AGM	R
Manager	S
AM	N
PO	Q
Clerk	H

S39. Ans.(d)

S40. Ans.(b)

Sol. Given Word- RELIGIOUS

After Arrangement- EGIILORSU

S41. Ans.(d)

Sol.

Let total work = 18 units (LCM of 18 & 6)

A efficiency = $\frac{18}{18} = 1\ unit/day$

(B + C) efficiency = $\frac{18}{6} = 3$ unit/day

B efficiency = $1 \times \frac{8}{5} = 1.6$ unit/day

So, C efficiency = 3 – 1.6 = 1.4 unit/day

Required days = $\frac{18}{1.4} = \frac{90}{7} = 12\frac{6}{7}$ days

S42. Ans.(b)

Sol.

Let speed of boat in still water and speed of stream be X km/hr and Y km/hr respectively

And, the distance covered by boat = d km

Given, X = 3.5 km/hr

$\frac{d}{X-Y} = \frac{250}{100} \times \frac{d}{X+Y}$

$5X - 5Y = 2X + 2Y$

$3X = 7Y$

So, $Y = \frac{3}{2}$ km/hr

S43. Ans.(d)

Sol.

Ratio of profit share of Nilu to Manoj after one years = 100% : 50% = 2 : 1

ATQ

$\frac{P \times 8}{6000 \times 12} = \frac{1}{2}$

$P = 4500$ Rs.

S44. Ans.(a)

Sol.

Let present age of B = n years

So, present age of A = (n + 3) years

ATQ –

Given, the ratio of age of A to B after two year = 5 : 4

$\frac{n+2}{(n+3)+2} = \frac{4}{5}$

n = 10 years

Required average age = $\frac{(10+4)+(10+3+4)}{2}$ = 15.5 years

S45. Ans.(b)

Sol.

Length of the train = $180 \times \frac{5}{18} \times 36 = 1800\ m$

Required time = $\frac{1800+1200}{(180+108) \times \frac{5}{18}} = 37.5\ second$

S46. Ans.(b)

Sol.

$\frac{18}{100} \times 650 - \frac{8}{100} \times 1150 \approx ?^2$

$117 - 92 \approx ?^2$

$?^2 \approx 25$

$? \approx 5$

S47. Ans.(a)
Sol.

$\frac{?-8}{20} \times 36 \approx 72$
$? - 8 \approx \frac{72 \times 20}{36}$
$? \approx 40 + 8$
$? \approx 48$

S48. Ans.(e)
Sol.

$\frac{30}{100} \times \frac{4}{7} \times \frac{1}{8} \times 420 \approx ?$
$? \approx 9$

S49. Ans.(c)
Sol.

$720 \times \frac{1}{80} \times \frac{1}{60} \times 120 \approx ?$
$? \approx 18$

S50. Ans.(e)
Sol.

$\frac{900 \times 25}{36} \approx (? + 17)^2$
$(? + 17)^2 \approx 625$
$? + 17 \approx 25$
$? \approx 8$

S51. Ans.(c)
Sol.

Required average $= \frac{(22+19+18) \times 24000}{3 \times 100}$
$= 4{,}720$

S52. Ans.(a)
Sol.

Total number of accidents caused by trucks and autos $= \frac{30}{100} \times 24000 = 7200$
Required number of injuries $= \frac{11}{24} \times 7200$
$= 3300$

S53. Ans.(d)
Sol.

Number of accidents of male

$= \frac{5}{8} \times 24000$

$= 15000$

Number of male accidents due to Car and Cycle $= 15000 \times \frac{40}{100} = 6000$

Number of female accidents due to car and cycle $= 24000 \times \frac{29}{100} - 6000$

$= 6960 - 6000$

$= 960$

S54. Ans.(c)
Sol.

Required angle $= \frac{(36-27)}{100} \times 360$

$= 32.4°$

S55. Ans.(a)
Sol.

Number of spot deaths $= \frac{48}{100} \times 24000$

$= 11,520$

Total population of city $= \frac{11520}{25} \times 4 \times 100$

$= 1,84,320$

Number of female populations $= \frac{184320 \times 11}{24} = 84,480$

S56. Ans.(b)
Sol.

I. $x^2 + x - 6 = 0$

$x^2 + 3x - 2x - 6 = 0$

$x(x + 3) - 2(x + 3) = 0$

$(x + 3)(x - 2) = 0$

$x = -3, 2$

II. $y^2 + 7y + 12 = 0$

$y^2 + 4y + 3y + 12 = 0$

$y(y + 4) + 3(y + 4) = 0$

$y = -3, -4$

So, $x \geq y$

S57. Ans.(a)

Sol.

$2x^2 - 17x + 35 = 0$

$2x^2 - 10x - 7x + 35 = 0$

$2x(x - 5) - 7(x - 5) = 0$

$(2x - 7)(x - 5) = 0$

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

II. $4y^2 - 19y + 21 = 0$

$4y^2 - 12y - 7y + 21 = 0$

$4y(y - 3) - 7(y - 3) = 0$

$(4y - 7)(y - 3) = 0$

$y = \frac{7}{4}, 3$

So, x > y

S58. Ans.(c)

Sol.

I. $x - 512 = 1331$

$x = 1843$

II. $y = 2197 - 353$

$y = 1844$

So, y > x

S59. Ans.(d)

Sol.

I. $x^2 + 39x + 380 = 0$

$x^2 + 19x + 20x + 380 = 0$

$x(x + 19) + 20(x + 19) = 0$

$(x + 19)(x + 20) = 0$

$x = -19, -20$

II. $y^2 + 37y + 342 = 0$

$y^2 + 18y + 19y + 342 = 0$

$y(y + 18) + 19(y + 18) = 0$

$(y + 18)(y + 19) = 0$

$y = -18, -19$

So, $y \geq x$

S60. Ans.(e)

Sol.

I. $x = \frac{2}{x} + \frac{2}{x}$

$x^2 = 4$

$x = \pm 2$

II. $y^2 - y - y + 1 = 0$

$y(y - 1) - 1(y - 1) = 0$

$(y - 1)^2 = 0$

$y = 1$

So, no relation can be establish.

S61. Ans.(a)
Sol.

Let the number of males and females who take subscription for watching Cricket be x and $x + 4000$.

$\frac{x + x + 4000}{2} = 17000$

$x + 2000 = 17000$

$x = 15000$

	Males	Females
Hockey	$\frac{5}{6} \times 15000 = 12500$	$19000 + 1000 = 20000$
Football	16750	18500
Cricket	15000	$15000 + 4000 = 19000$

Total male who take subscription for watching Cricket and Hockey together = $15000 + 12500 = 27500$

Total female who take subscription for watching Football and Cricket together = $18500 + 19000 = 37500$

Required difference = $37500 - 27500 = 10000$

S62. Ans.(c)
Sol.

Let the number of males and females who take subscription for watching Cricket be x and $x + 4000$.

$\frac{x + x + 4000}{2} = 17000$

$x + 2000 = 17000$

$x = 15000$

	Males	Females
Hockey	$\frac{5}{6} \times 15000 = 12500$	$19000 + 1000 = 20000$
Football	16750	18500
Cricket	15000	$15000 + 4000 = 19000$

Required Percent = $\frac{16750-15000}{15000} \times 100 = 11\frac{2}{3}\%$

S63. Ans.(d)
Sol.

Let the number of males and females who take subscription for watching Cricket be x and $x + 4000$.

$\frac{x + x + 4000}{2} = 17000$

$x + 2000 = 17000$

$x = 15000$

	Males	Females
Hockey	$\frac{5}{6} \times 15000 = 12500$	$19000 + 1000 = 20000$
Football	16750	18500
Cricket	15000	$15000 + 4000 = 19000$

Required Average = $\frac{12500+16750+15000}{3} = 14750$

S64. Ans.(c)

Sol.

Let the number of males and females who take subscription for watching Cricket be x *and* $x + 4000$.

$$\frac{x + x + 4000}{2} = 17000$$

$$x + 2000 = 17000$$

$$x = 15000$$

	Males	Females
Hockey	$\frac{5}{6} \times 15000 = 12500$	$19000 + 1000 = 20000$
Football	16750	18500
Cricket	15000	$15000 + 4000 = 19000$

Total females who take subscription for watching Hockey, Football and Cricket together = $20000 + 18500 + 19000 = 57500$

Females who take subscription for watching Tennis = $\frac{2}{5} \times 57500 = 23000$

S65. Ans.(b)

Sol.

Let the number of males and females who take subscription for watching Cricket be x *and* $x + 4000$.

$$\frac{x + x + 4000}{2} = 17000$$

$$x + 2000 = 17000$$

$$x = 15000$$

	Males	Females
Hockey	$\frac{5}{6} \times 15000 = 12500$	$19000 + 1000 = 20000$
Football	16750	18500
Cricket	15000	$15000 + 4000 = 19000$

Total male who take subscription for watching Hockey, Football and Cricket together = $12500 + 16750 + 15000 = 44250$

Total female who take subscription for watching Hockey, Football and Cricket together = $20000 + 18500 + 19000 = 57500$

Required difference = $57500 - 44250 = 13250$

S66. Ans.(b)

Sol.

$$\text{Required percentage} = \frac{900+900-750-900}{750+900} \times 100$$

$$= \frac{150}{1650} \times 100$$

$$= 9.09\%$$

S67. Ans.(c)
Sol.

Required difference $= 400 - 525 \times \frac{60}{100} = 85$

S68. Ans.(b)
Sol.

$$\text{Required average} = \frac{750+1050+900+600+800}{5}$$
$$= \frac{4100}{5}$$
$$= 820$$

S69. Ans.(e)
Sol.

$$\text{Required ratio} = \left(\frac{0.75}{100} \times 800\right) : \left(\frac{0.4}{100} \times 750\right)$$
$$= 6:3$$
$$= 2:1$$

S70. Ans.(b)
Sol.

$$\text{Required percentage} = \frac{525}{600} \times 100 = 87.5\%$$

S71. Ans.(d)
Sol.

$5440 = 4000 + 4000 \times \frac{X \times 3}{100}$
$120X = 1440$
$X = 12$
So, value of $(X + 3) = (12 + 3) = 15$

S72. Ans.(a)
Sol.

Let radius of circle and side of square be 7x and 6x respectively
ATQ –
$2 \times \frac{22}{7} \times 7x + 4 \times 6x = 204$
$44x + 24x = 204$
$x = 3$ cm
So, area of square $= (3 \times 6)^2 = 324$ cm^2

S73. Ans.(e)
Sol.
ATQ
$\frac{x\times(x+10)}{x+(x+10)} = 12$
$x = 20$ hours
Required %$=\frac{30}{20}\times 100 = 150\%$

S74. Ans.(c)
Sol.
quantity of sugar in the final solution $= \frac{200\times 38.5}{100} = 77\ lt$
Quantity of sugar in 80 ltr of solution $= \frac{80\times 2}{5} = 32\ lt$
So, Quantity of sugar in 120 ltr of solution= 77-32 =45 lt
Required ratio$=\frac{45}{75} = 3:5$

S75. Ans.(e)
Sol.
let CP be Rs. x
MP $= \frac{130}{100}\times x = Rs.\ 1.3x$
SP (given) $= \frac{90}{100}\times 1.3x = Rs.\ 1.17x$
Earlier SP (announced) $= \frac{85}{100}\times 1.3x = Rs.\ 1.105x$
Gain $= 1.17x - 1.105x = Rs.\ 0.065x$
$0.065x = 13$
$x = Rs.\ 200$

S76. Ans.(b)
Sol.
Here the pattern is:
2x4 = 8
8x5 = 40
40x6 = 240
240x7 = 1680
? =1680x8 = **13440**

S77. Ans.(d)
Sol.
Here the pattern is:
1+5 = 6
6 +10 = 16
16 + 15 = 31
31 + 20= 51
? = 51 + 25= **76**

S78. Ans.(e)
Sol.
Here the pattern is:
4096÷4 = 1024
1024÷ 2 = 512
512÷ 4 = 128
128÷ 2 = 64
? = 64÷ 4 = **16**

S79. Ans.(a)
Sol.
Here the pattern is:
21+21 = 42
42+22 = 64
64+23 = 87
87+24 = 111
?= 111+25 = **136**

S80. Ans.(b)
Sol. Here the pattern is:
4^3+1 = 65
5^3+1 = 126
6^3+1= 217
7^3+1 = 344
8^3+ 1= 513
?= 9^3+1 = **730**

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