RRB Clerk Pre 2022 (7th August) Shift-Wise Previous Year Papers Mock 04

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

Eight persons are sitting around a square table in such a way that four of them are sitting at the corners and they are facing towards the center of table, while other four persons who are sitting in the middle of the side of the square table are facing away from the center.

C sits second to the right and immediate right of F and G respectively. A sits opposite to F. Two persons sit between B and A. E faces C. D sits second to the left of H.

Q1. Who an

(a) A
(b) G
(c) F
(d) E
(e) None of

Q2. How ma ?

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

Q3. Who an left of F?

(a) G
(b) C
(c) D
(d) A
(e) None of

Q4. Which

(a) C faces i
(b) G and B are immediate neighbors of C
(c) C sits third to the left of H
(d) A sits second to the right of C
(e) None is true

Q5. Who among the following is/are immediate neighbors of H?

(a) E
(b) C
(c) G
(d) A
(e) Both E and A

Directions (6-9): **Study the information carefully and answer the questions given below.**
A person starts his journey from point A. He walks 10m towards the east direction and reaches at point B. Now, turning to the right, he walks 5m to reach point C and then he takes a left turn and walk 10m to reach point D. From point D, he walks 10m in the north direction and reaches at point E.

Q6. In which direction is point A with respect to the point which is 5m north of point D?
(a) Northwest
(b) West
(c) Northeast
(d) East
(e) None of

Q7. Find th
(a) 17 √5m
(b) 5 √17m
(c) √423m
(d) √426m
(e) None of

Q8. In whic **pect** **oint**
(a) Northwe
(b) Southwe
(c) Northeas
(d) Southeas
(e) None of

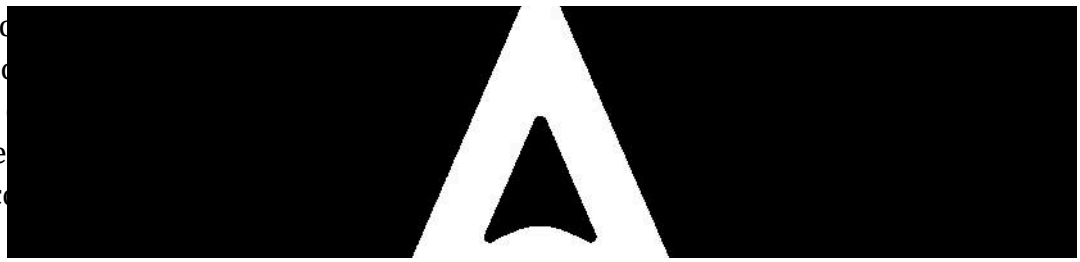
Q9. If Point **st** **Po** **E** **he** **wh** **is the s** **ortest** **istanc** **t** **we** **X and Point C?**
(a) 5m
(b) 10m
(c) 15m
(d) 12m
(e) None of these

Directions (10-14): **In each of the questions below some statements are given followed by two 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.**

Q10. Statements:
Some rat is pat
All pat are hak
No hak is dak

Conclusion
I: No pat is dak
II: Some rat are not dak
(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

Q11. Statements:
Some 22 are 34.
Only a few 34 are 17.
Some 17 are 12.
Conclusion
I: No 22 is 17.
II: Some 17 is 22.
(a) If only co
(b) If only co
(c) If either
(d) If neithe
(e) If both co



Q12. Statements:
Only a few Sky are Blue
Some Blue are Black
Only a few Black are Sky
No Blue is Pink
Conclusion
I: Some Black are Pink
II: All Blue being Pink is a possibility.
(a) If only co
(b) If only co
(c) If either
(d) If neither conclusion I nor II is true
(e) If both conclusions I and II are true

Q13. Statements:
All Lily are Sun.
All Rose are Lotus
No Sun is Lotus
Conclusion
I: All Lotus are Rose.
II: No Lotus is Lily.

(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

Q14. Statements:
All Ear are Nose
No Ear is Hand
No Nose is Eye
Conclusion
I: All Eye are Ear
II: No Eye is Hand
(a) If only co
(b) If only co
(c) If either
(d) If neithe
(e) If both co

Directions **arefully** **below.**
Eight perso ng ar nd a enter to take
corona vacc me o
Three perso n im e nei tween G and
M who is no L. F sits 2nd to the ri of K.

Q15. Who a
(a) B
(b) L
(c) G
(d) H
(e) None of

Q16. Four c **ind the one**
that does n
(a) G-F
(b) H-K
(c) F-B
(d) M-B
(e) D-L

Q17. How many persons sit between K and F when counted to the right of K?
(a) Four
(b) Two
(c) One
(d) Three
(e) None

Q18. The number of persons sit between H and M when counted to the left of M is the same as the number of persons sit between ___ and B when counted to the left of __.
(a) F
(b) G
(c) L
(d) D
(e) None of these

Q19. Who among the following sits 3rd to the left of B?
(a) F
(b) M
(c) G
(d) D
(e) H

Directions **sym** **e questions given belo**
M 3 2 D % N **1 & A $ ***

Q20. How **e wh** **e im** **phabet and immediate**
(a) One
(b) Two
(c) Three
(d) Four
(e) None

Q21. Which **from end of the series?**
(a) 5
(b) F
(c) 3
(d) S
(e) None of these

Q22. How many such symbols are there which are immediately preceded by a number and immediately followed by a vowel?
(a) Two
(b) None
(c) One
(d) Four
(e) Three

Q23. How many such alphabets are there which are immediately preceded and immediately followed by the same number?

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

Q24. If all the numbers are eliminated from the given series, then, which of the following element is 11th from

(a) F
(b) S
(c) B
(d) *
(e) None of

Q25. If 2 is **n the give** **is added to each even** **how any** **is repeated more than** **so o** **ed?**

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

Directions **0): Study t e follo ing inf rmatio nd ans ne u st below:**

Seven perso a week from Monday to S

Three perso hich A goes to market. O ly one person goes to market between A and G. Two persons go to market between G and B. Only one person goes to market between B and E. D does not go to market immediately after the days on which G goes to market. D goes to market immediately before the days on which C goes to market.

Q26. Who among the following person goes to market on Wednesday?

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

Q27. Who among the following goes to the market immediately before E?
(a) C
(b) G
(c) A
(d) F
(e) None of these

Q28. G goes to the market on which day of the week?
(a) Friday
(b) Tuesday
(c) Monday
(d) Sunday
(e) None of

Q29. Which
(a) A goes to
(b) E goes in
(c) Only two
(d) A goes in
(e) None is t

Q30. How m and E?
(a) Four
(b) Three
(c) Two
(d) One
(e) None of

Directions tions given below.
Six persons in cm) from left to right but not necessarily in the same order. The height of A is 130cm and F's height is more than the one whose height is 130cm. D is taller than F. A is taller than B. The height of D is 150cm but he is not the tallest. E is taller than F and shorter than D.

Q31. What can be the possible height of E?
(a) 135cm
(b) 161cm
(c) 129cm
(d) 120cm
(e) 164cm

Q32. Who among the following person is the tallest?
(a) None of these
(b) C
(c) E
(d) F
(e) A

Directions (33-37): **Study the information carefully and answer the questions given below.**
There are six persons D, E, F, G, H and J living on six floors building, but not necessarily in the same order. The ground floor is numbered as 1 and the floor just above it is numbered as 2 so on till the topmost flo pes, Mango, Papaya and
E and H live persons live between H a f H. The one who lives o loor of H.

Q33. Which
(a) Apple
(b) Either a
(c) Grapes
(d) Banana
(e) None of

Q34. Who a
(a) F
(b) G
(c) J
(d) D
(e) None of

Q35. The o
(a) 3rd floor
(b) 5th floor
(c) 1st floor
(d) 4th floor
(e) None of these

Q36. Who among the following lives immediately above the floor of J?
(a) D
(b) G
(c) F
(d) E
(e) None of these

Q37. Who among the following likes Banana?

(a) G
(b) F
(c) D
(d) Either G or D
(e) None of these

Directions (38-40): In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer.

Q38.

Statements:
$Z \geq S > O = T > X = V < W = U$
Conclusion:
I. $V < Z$
II. $V = Z$

(a) If only co
(b) If only co
(c) If either
(d) If neithe
(e) If both co

Q39.

Statements:
$A > J \geq L = C < B = E \geq F > G = D$
Conclusion:
I. $L \geq G$
II. $G < L$

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

Q40.

Statements:
$K \geq E < P \leq B \leq N < M < O > Q > R$
Conclusion:
I. $M > E$
II. $O > K$

(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.

Q41. If a sum of Rs. X invested at the rate of 20% p.a. on compound interest annually and it becomes Rs. 3456 after two years, then find the value of X.
(a) 2400 Rs.
(b) 2200 Rs.
(c) 2000 Rs.
(d) 2600 Rs
(e) 2800 Rs.

Q42. The sp 0 km in ten hours in do
(a) 4 hr
(b) 6 hr
(c) 8 hr
(d) 10 hr
(e) 12 hr

Q43. A worl n in , in mplete the 200% of th
(a) 160 days
(b) 480 days
(c) 300 days
(d) 180 days
(e) 225 days

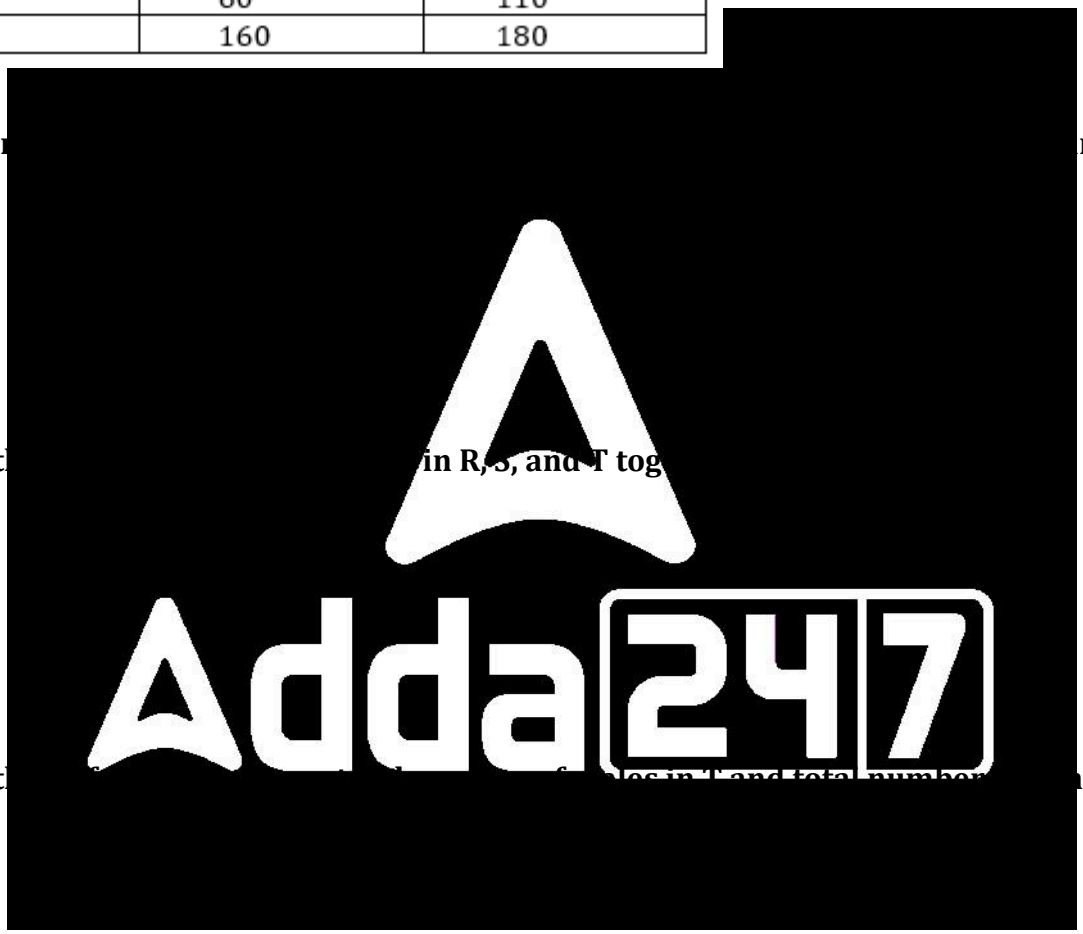
Q44. The p t a f fa er is 2 0% m re than io of age of father to so
(a) 39 years
(b) 35 years
(c) 31 years
(d) 33 years
(e) 37 years

Q45. Two person P and Q entered in a business with investments of Rs. 11000 and Rs. 13200 respectively. If Q left the business after 'X' months and at the end of the year P & Q got equal profit share, then find X?
(a) 10
(b) 9
(c) 8
(d) 11
(e) 7

Directions (46-50): **The table chart given below shows the number of males and females in six (P, Q, R, S, T, and U) different companies. Study the data carefully and answer the question given below.**

Companies	Number of males	Number of females
P	120	170
Q	150	140
R	80	90
S	100	70
T	60	110
U	160	180

Q46. Total n



n P?

(a) 40%
(b) 50%
(c) 60%
(d) 45%
(e) 65%

Q47. Find t **in R, S, and T tog**

(a) 40
(b) 60
(c) 80
(d) 100
(e) 120

Q48. Find t **ales in R**?

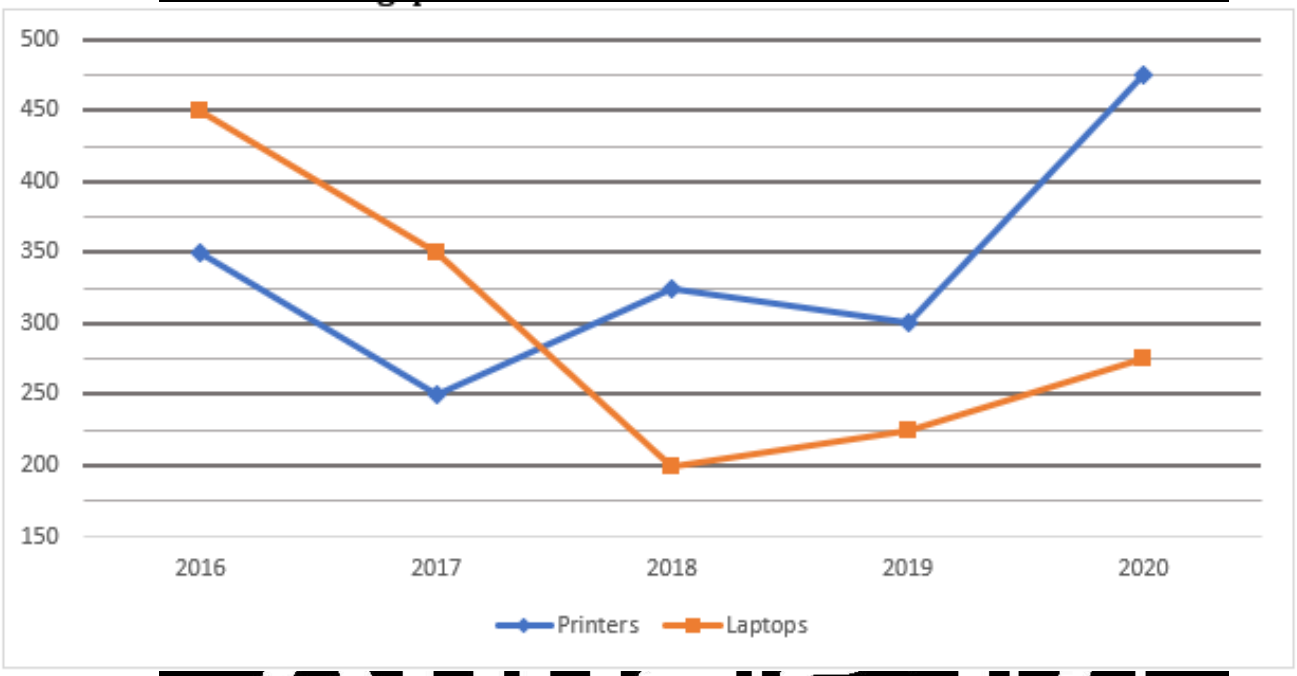
(a) 40
(b) 50
(c) 60
(d) 30
(e) 20

Q49. Find the ratio between total numbers of females in Q to total number of males in U?

(a) 7:8
(b) 3:7
(c) 3:8
(d) 5:8
(e) 4:7

Q50. Total number of females in S is what percent of total number of males in same class?
(a) 60%
(b) 70%
(c) 50%
(d) 40%
(e) 30%

Directions (51-55): The Line graph given below shows the number of Printers and Laptops manufactured by a company in five different years. Read the graph carefully and answer the following q



Q51. Find t d 2020?
(a) 275
(b) 350
(c) 300
(d) 320
(e) 375

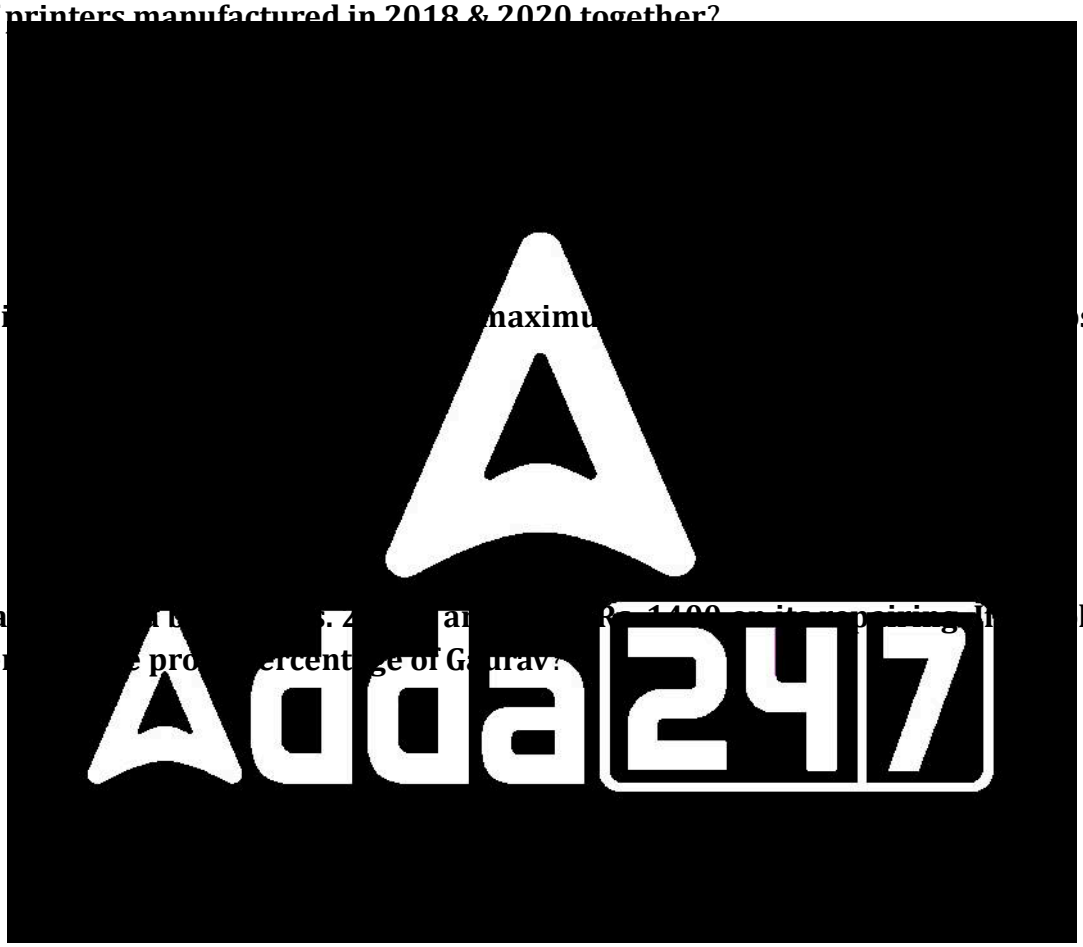
Q52. Total number of laptops manufactured in year 2016 & 2017 together is what percentage more or less than total number of printers manufactured in these two years?
(a) 30 ⅓%
(b) 66 ⅔%
(c) 50%
(d) 33 ⅓%
(e) 75%

Q53. If 20% of total manufactured printers and 25% of total manufactured laptops remain unsold in 2018, then find the total number of sold units of printers and laptops in 2018?
(a) 310
(b) 420
(c) 360
(d) 470
(e) 410

Q54. Find the ratio of total number of laptops manufactured in 2019 & 2020 together to total number of printers manufactured in 2018 & 2020 together?
(a) 3 : 5
(b) 4 : 5
(c) 5 : 8
(d) 2 : 5
(e) 8 : 5

Q55. In whi maximu s together.
(a) 2016
(b) 2017
(c) 2018
(d) 2019
(e) 2020

Q56. Gaura ld it for Rs. 30800, ther pro ercent ge of G urav?
(a) 10%
(b) 5%
(c) 20%
(d) 15%
(e) 25%



Q57. There are four consecutives even numbers. If sum of first three numbers is 108, then calculate the product of smallest and largest number?
(a) 1260
(b) 1292
(c) 1280
(d) 1360
(e) 1428

Q58. What is the ratio between area of a circle with radius 7cm and perimeter of a circle with diameter 7 cm?

(a) 2:1
(b) 3:2
(c) 7:5
(d) 4:3
(e) 7:1

Q59. A train crosses a man, who is running in the same direction of train at the speed of 2m/sec. in 10 seconds. The same train crosses a tunnel in 54 seconds. If speed of train is 72 km/h then what is the length of tunnel?
(a) 850 m
(b) 800 m
(c) 900 m
(d) 750 m
(e) 650 m

Q60. 70% o ther i s is 48, then find the lar
(a) 28.8
(b) 65.2
(c) 67.2
(d) 57.2
(e) 48.4

Directions Wha me e p estion ( ) n rk r follov estions.

Q61. $80\%\ 170 + 75\%\ \text{of}\ 216 - 10 = ? \times 6$
(a) 36
(b) 12
(c) 63
(d) 54
(e) 48

Q62. $37\frac{1}{2}\%\ \text{of}\ 600 + 14.\frac{2}{7}\%\ \text{of}\ 210 = ?$
(a) 250
(b) 260
(c) 255
(d) 265
(e) 280

Q63. $48 + 8 \times 0.75 - 5 = ?$
(a) 22
(b) 36
(c) 49
(d) 56
(e) 46

Q64. $2950 \div 12.5 + 160 = ?$
(a) 392
(b) 390
(c) 396
(d) 394
(e) 400

Q65. $25\%\text{ of }124 + 35\%\text{ of }60 = ?$
(a) 52
(b) 57
(c) 62
(d) 67
(e) 72

Q66. $\sqrt{\sqrt{225} \div 3 + \sqrt{576} \div 6} = ?$
(a) 3
(b) 6
(c) 9
(d) 5
(e) 12

Q67. $(12)^3 \times (6)^4 \div 432 = ?$
(a) 5184
(b) 5060
(c) 5148
(d) 5084
(e) 5224

Q68. $45 + 20\%\text{ of }? = 460 \div 4$
(a) 250
(b) 450
(c) 400
(d) 350
(e) 360

Q69. $(11)^2 + (23)^2 + ? = 800$

(a) 125
(b) 100
(c) 150
(d) 50
(e) 175

Q70. $? + 432 - 206 = 550$

(a) 384
(b) 244
(c) 224
(d) 276
(e) 324

Q71. $2^5 + 2^{10} = ? \times 12$

(a) 68
(b) 72
(c) 80
(d) 88
(e) 96

Directions (

s.

In a college, [illegible] baddi). The ratio betwe[illegible]nd gi[illegible]who pa[illegible]icipate[illegible] in gam[illegible]5. [illegible]0% [illegible]of [illegible]tal [illegible]rticipated in Tennis, whi[illegible]5% [illegible]f [illegible] g[illegible]s v[illegible]ho [illegible]art[illegible]ipated [illegible]n Hocke[illegible]otal 2[illegible]3 [illegible]stu[illegible]n[illegible] [illegible]rticipated in Hockey. num[illegible] girls parti[illegible]ipated i[illegible] Tennis are 20 m[illegible]e than t[illegible]f K[illegible]ddi

Note- A stu[illegible]

Q72. Find t[illegible]

(a) 2070
(b) 2400
(c) 2530
(d) 2050
(e) 2490

Q73. Boys participated in Kabaddi is what percentage more/less than that of girls participated in the same sport?

(a) $242\frac{6}{7}\%$

(b) $132\frac{1}{7}\%$

(c) $580\frac{14}{17}\%$

(d) $142\frac{6}{7}\%$

(e) $146\frac{1}{7}\%$

Q74. Find the ratio between number of boys participated in Hockey to the number of girls participated in Kabaddi.

(a) 27 :14

(b) 29 :15

(c) 29 :14

(d) 15 :28

(e) None of

Q75. Girls p

(a) 150%

(b) 133 ⅓%

(c) 75%

(d) 66 ⅔%

(e) 85%

Directions (rongin the follow

Q76. 9, 14,

(a) 9

(b) 134

(c) 179

(d) 29

(e) 89

Q77. 1, 3, 7,

(a) 2677

(b) 22

(c) 89

(d) 1

(e) 446

Q78. 5, 8, 17, 24, 39, 48, 65

(a) 8

(b) 48

(c) 65

(d) 5

(e) 39

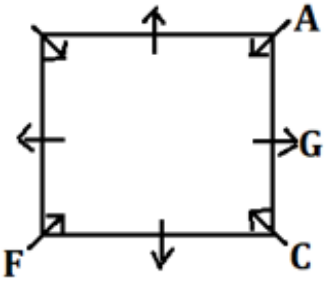
Q79. 32, 64, 16, 96, 12, 120, 8
(a) 64
(b) 96
(c) 8
(d) 120
(e) 32

Q80. 17, 21, 26, 33, 44, 57, 74
(a) 17
(b) 26
(c) 44
(d) 74
(e) 57

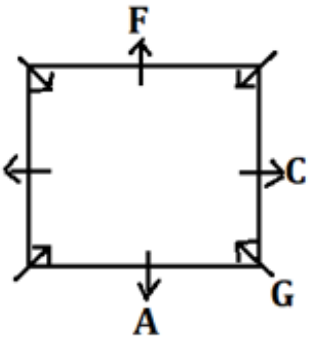
Solutions

S1. Ans.(d)
Sol. From th… to th… ht ar… spectively. A sits opposit… here a… two poss…

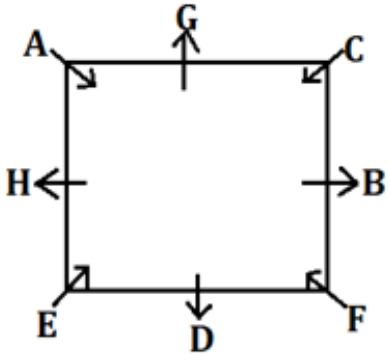
Case-1



Case-2



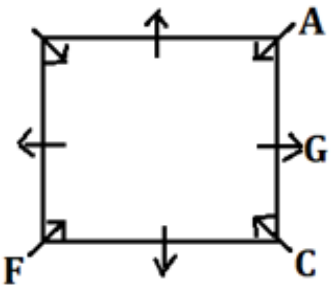
Two person… sits second to the left of H. The final arrangement is-



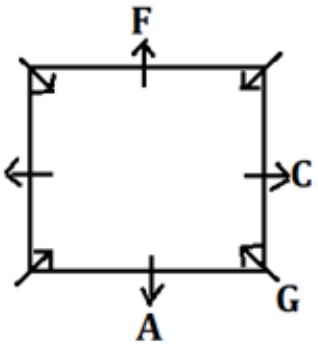
S2. Ans.(b)

Sol. From the given conditions, C sits second to the right and immediate right of F and G respectively. A sits opposite to F. From these conditions there are two possibilities-

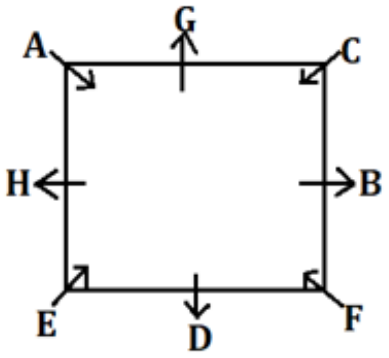
Case-1



Case-2



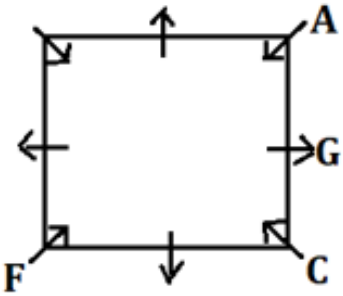
Two person [redacted] sits second to the left of



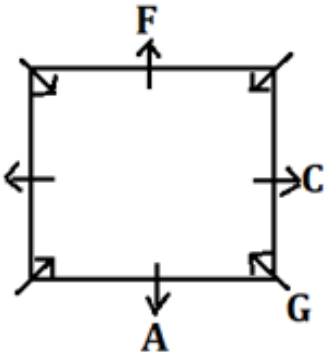
S3. Ans.(a)

Sol. From th[redacted] conditio[redacted], C sits second t[redacted] th[redacted] ight [redacted] nd imm[redacted] e ri[redacted] of [redacted] spectively. A sits opposit[redacted]

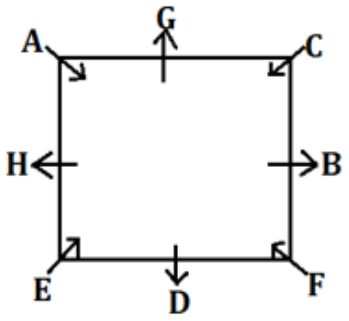
Case-1



Case-2

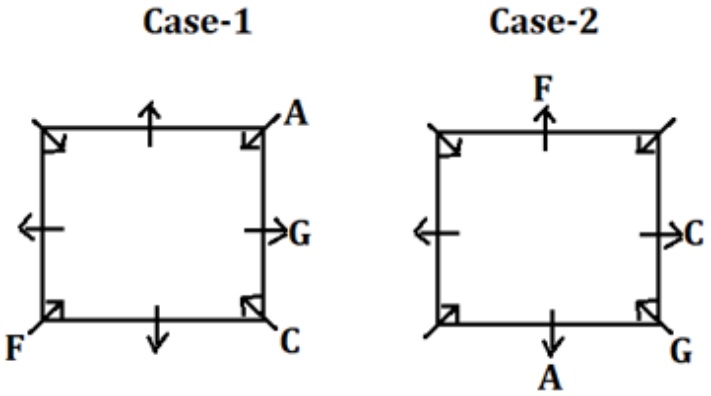


Two persons sit between B and A. E faces C. From this condition case-2 will be eliminated. D sits second to the left of H. The final arrangement is-

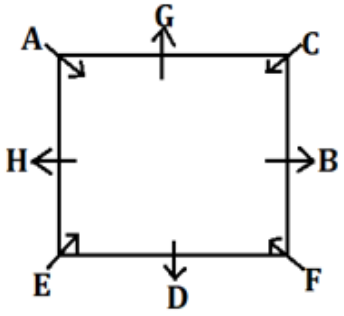


S4. Ans.(c)

Sol. From the given conditions, C sits second to the right and immediate right of F and G respectively. A sits opposit

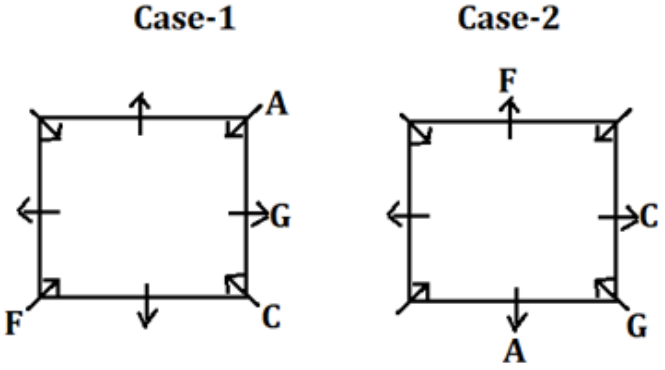


Two person . From this condit 0 sits second to the left of

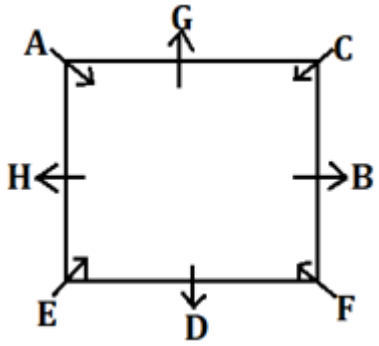


S5. Ans.(e)

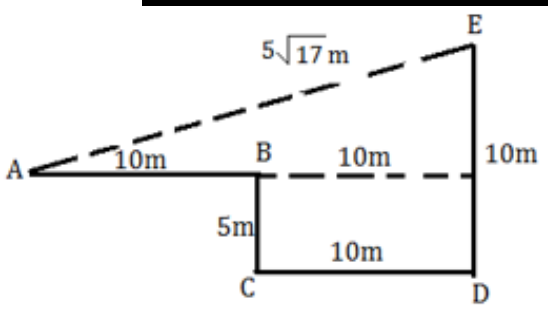
Sol. From the given conditions, C sits second to the right and immediate right of F and G respectively. A sits opposite to F. From these conditions there are two possibilities-



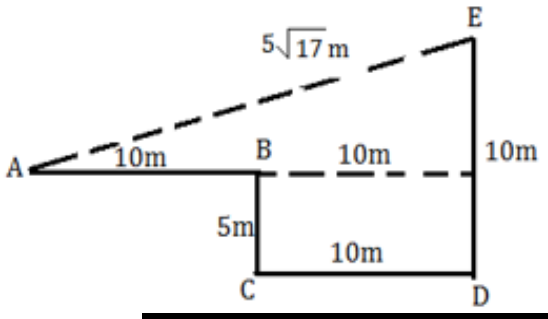
Two persons sit between B and A. E faces C. From this condition case-2 will be eliminated. D sits second to the left of H. The final arrangement is-



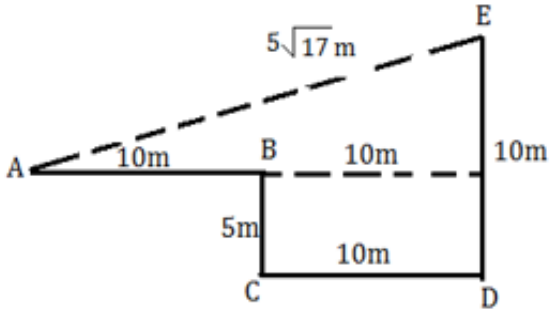
S6. Ans.(b)
Sol.



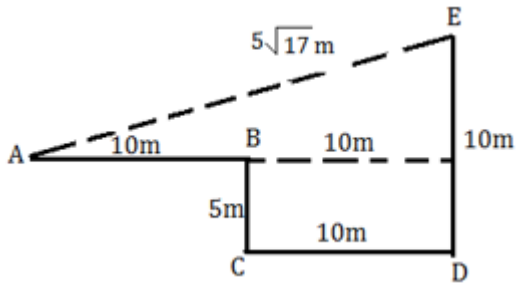
S7. Ans.(b)
Sol.



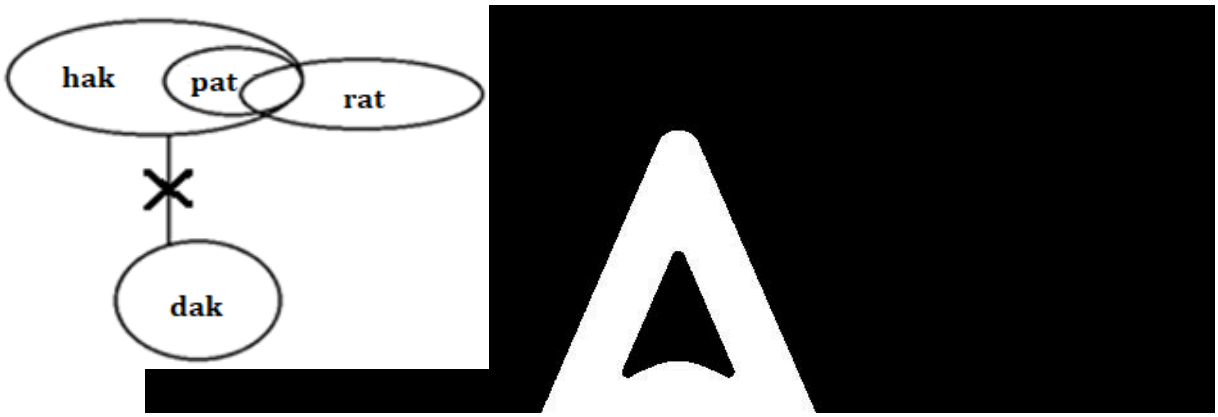
S8. Ans.(c)
Sol.



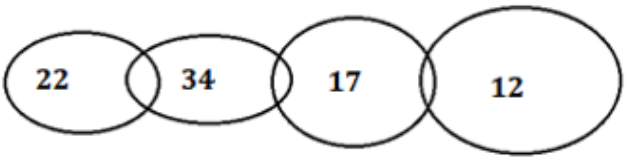
S9. Ans.(b)
Sol.



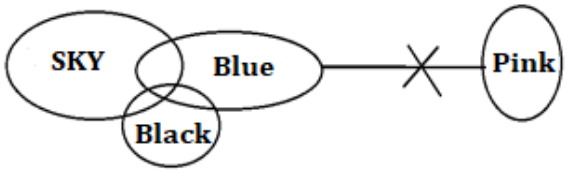
S10. Ans.(e)
Sol.



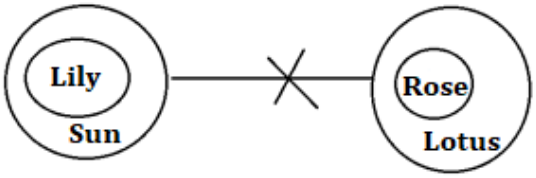
S11. Ans.(c)
Sol.



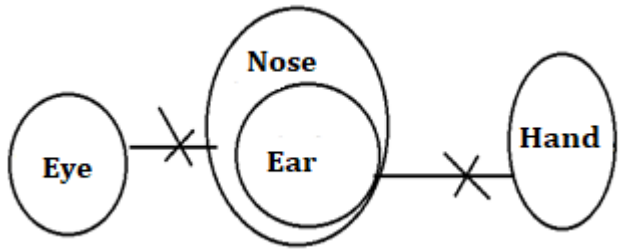
S12. Ans.(d)
Sol.



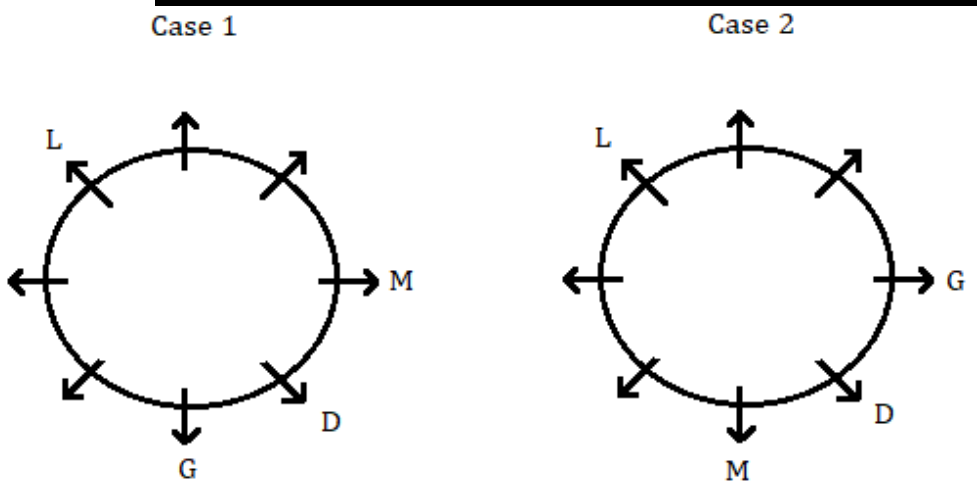
S13. Ans.(b)
Sol.



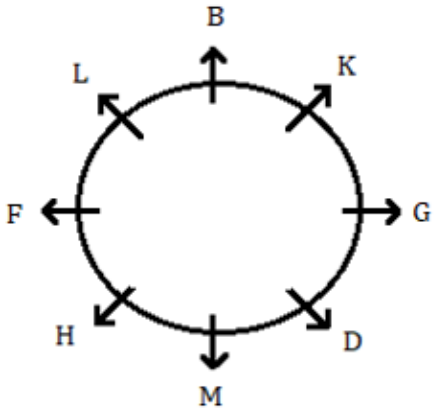
S14. Ans.(d)
Sol.



S15. Ans.(b)
Sol. From th[redacted]eighbour of G. Here we [redacted]ho is not an immediate n[redacted]

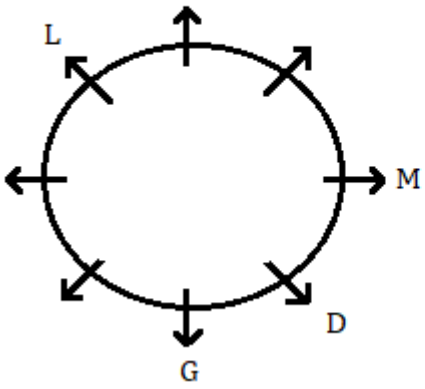


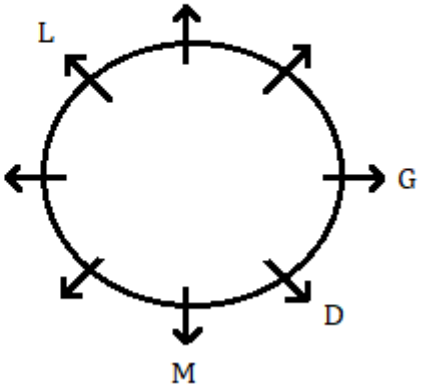
F sits 2nd to t[redacted]of M. F[redacted]e Case 1 [redacted]s ruled [redacted]ut now. [redacted]s immediate le[redacted]. H[redacted]the persons. So, the final [redacted]ement -



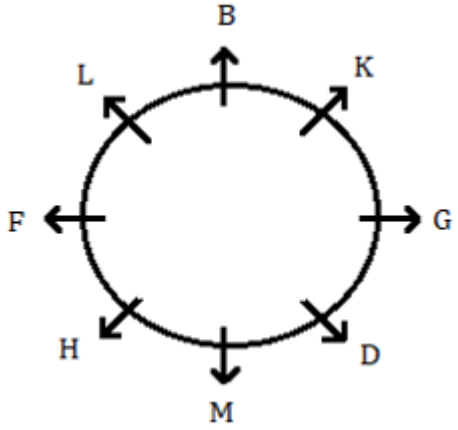
S16. Ans.(c)
Sol. From the given statements, three persons sit between L and D who is an immediate neighbour of G. Here we get 2 possible cases – Case 1 and Case 2. One person sits between G and M who is not an immediate neighbour of L.

Case 1 Case 2



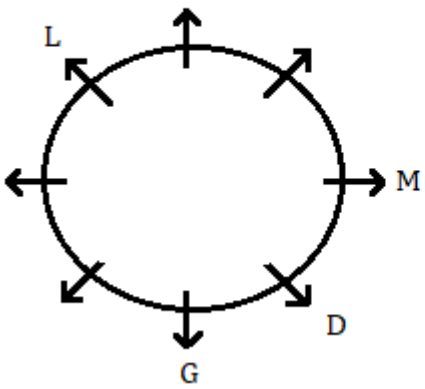


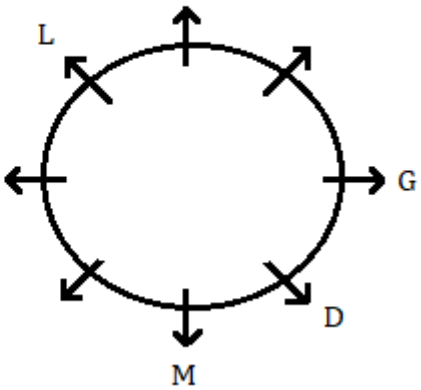
F sits 2nd to t the persons.
So, the final



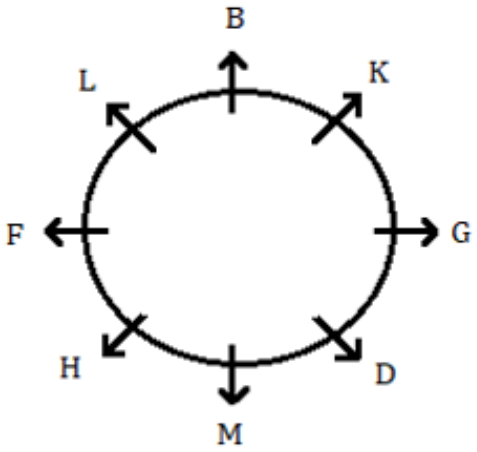
S17. Ans.(a
Sol. From th st em ts, ree pe ons t betwe n L and who im c eighbour of G. Here we g ossible ca es Case 1 and Cas 2. On person be w n ho is not an immediate n

Case 1 Case 2





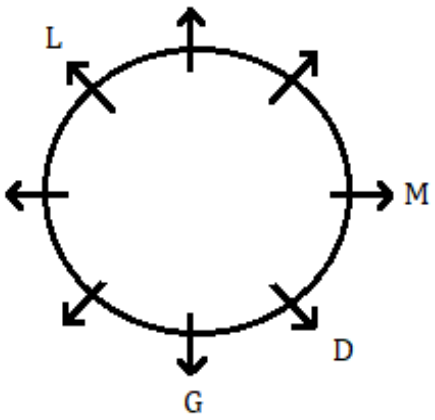
F sits 2nd to the right of M. Here Case 1 is ruled out now. B sits immediate left of K. H is one of the persons.
So, the final arrangement -

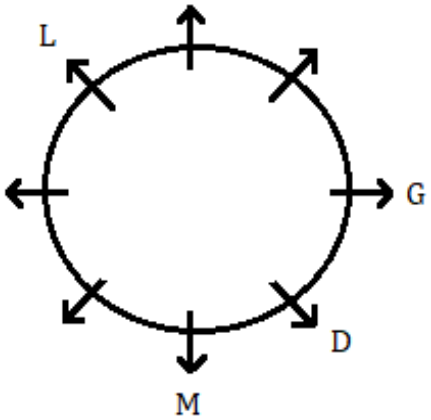


S18. Ans.(c)

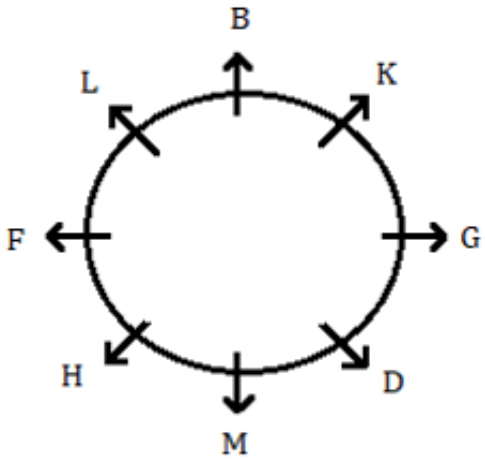
Sol. From th[redacted]eighbour of G. Here we [redacted]ho is not an immediate n[redacted]

Case 1 Case 2





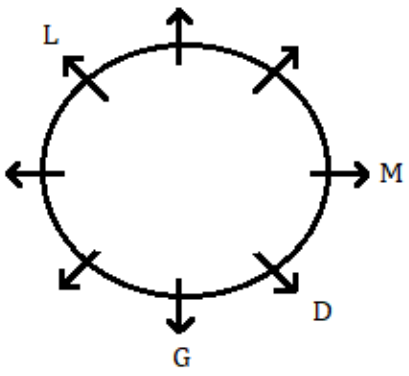
F sits 2nd to t[redacted]the persons. So, the final



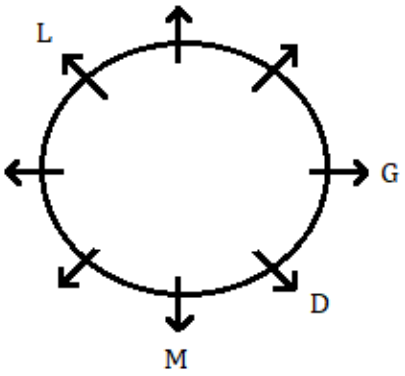
S19. Ans.(e)

Sol. From the given statements, three persons sit between L and D who is an immediate neighbour of G. Here we get 2 possible cases – Case 1 and Case 2. One person sits between G and M who is not an immediate neighbour of L.

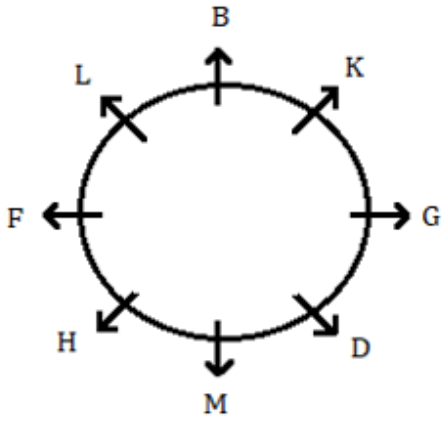
Case 1



Case 2



F sits 2nd to t now the persons. So, the final



S20. Ans.(a

S21. Ans.(c

S22. Ans.(c)

S23. Ans.(b)

S24. Ans.(b)

S25. Ans.(c)

Sol.

Given Number=4679758258

After applied given condition= 5757539339

Thus, two digits (3 and 5) repeated more than two times.

S26. Ans.(b)

Sol. From the given conditions, three persons go to market between F and A. F goes to market one of the days before on which A goes to market. Only one person goes to market between A and G. There are three possible cases.

Days	Case-1	Case-2	Case-3
	Persons	Persons	Persons
Monday	F		
Tuesday		F	
Wednesday	G/		F
Thursday		G	
Friday	A		G
Saturday		A	
Sunday	G/		A

Two person[illegible] on which C goes to mar[illegible]rson goes to market betw[illegible]s-

Days	Persons
Monday	F
Tuesday	D
Wednesday	C
Thursday	B
Friday	A
Saturday	E
Sunday	G

S27. Ans.(c)

Sol. From th[illegible]n conditio[illegible]s, [illegible]ree pe[illegible]ns go[illegible]m[illegible]et betw[illegible] a[illegible]. F[illegible]s [illegible]arket one of the days bef[illegible] to m[illegible]et. On[illegible]e pe[illegible]son goes to market between [illegible]G. There are three possib[illegible]

Days	Case-1	Case-2	Case-3
	Persons	Persons	Persons
Monday	F		
Tuesday		F	
Wednesday	G/		F
Thursday		G	
Friday	A		G
Saturday		A	
Sunday	G/		A

Two persons go to market between G and B. D goes to market immediately before the days on which C goes to market. From these conditions case-2 and case-3 will be eliminated. Only one person goes to market between B and E. The final arrangement is-

Days	Persons
Monday	F
Tuesday	D
Wednesday	C
Thursday	B
Friday	A
Saturday	E
Sunday	G

S28. Ans.(d)

Sol. From the given conditions, three persons go to market between F and A. F goes to market one of the days before on which A goes to market. Only one person goes to market between A and G. There are three possib

Days	Case-1	Case-2	Case-3
	Persons	Persons	Persons
Monday	F		
Tuesday		F	
Wednesday	G/		F
Thursday		G	
Friday	A		G
Saturday		A	
Sunday	G/		A

Two person . D g mar on which C goes to mar se-2 and case-3 w rson goes to market betw gement is-

Days	Persons
Monday	F
Tuesday	D
Wednesday	C
Thursday	B
Friday	A
Saturday	E
Sunday	G

S29. Ans.(e

Sol. From th arket one of the days before on which A goes to market. Only one person goes to market between A and G. There are three possible cases.

Days	Case-1	Case-2	Case-3
	Persons	Persons	Persons
Monday	F		
Tuesday		F	
Wednesday	G/		F
Thursday		G	
Friday	A		G
Saturday		A	
Sunday	G/		A

Two persons go to market between G and B. D goes to market immediately before the days on which C goes to market. From these conditions case-2 and case-3 will be eliminated. Only one person goes to market between B and E. The final arrangement is-

Days	Persons
Monday	F
Tuesday	D
Wednesday	C
Thursday	B
Friday	A
Saturday	E
Sunday	G

S30. Ans.(a

Sol. From th arket one of the days bef G. There are three possib

Days	Case-1	Case-2	Case-3
	Persons	Persons	Persons
Monday	F		
Tuesday		F	
Wednesday	G/		F
Thursday		G	
Friday	A		G
Saturday		A	
Sunday	G/		A

Two person d B. D arket on which C goes to mar rson goes to market betw E ar ne

Days	Persons
Monday	F
Tuesday	D
Wednesday	C
Thursday	B
Friday	A
Saturday	E
Sunday	G

S31. Ans.(a)

Sol.

C > D > E > F > A > B

150 130

S32. Ans.(b)

Sol.

C > D > E > F > A > B

150 130

S33. Ans.(c)

Sol. From the given statements, the one who lives on 6th floor likes Apple. The one who lives on 2nd floor likes Grapes.

Floor	Person	Fruit
6		Apple
5		
4		
3		
2		Grapes
1		

There are three persons live between H and D. D lives above the floor of H. E and H live on the odd number floo

Floor	Person	Fruit
6		Apple
5	D	
4		
3	E	Papaya
2		Grapes
1	H	Melon

J likes Mang ve the fl persons and one of them men is-

Floor	Person	Fruit
6	G	Apple
5	D	Banana
4	J	Mango
3	E	Papaya
2	F	Grapes
1	H	Melon

S34. Ans.(b

Sol. From th n statemen ts, e one ho ives on 6 n f Ap e The e lives on 2nd floor likes G

Floor	Person	Fruit
6		Apple
5		
4		
3		
2		Grapes
1		

There are three persons live between H and D. D lives above the floor of H. E and H live on the odd number floor and they like Papaya and Melon respectively.

Floor	Person	Fruit
6		Apple
5	D	
4		
3	E	Papaya
2		Grapes
1	H	Melon

J likes Mango. G does not live immediately above the floor of H. We know F is one of the persons and one of them likes banana. So, the final arrangement is-

Floor	Person	Fruit
6	G	Apple
5	D	Banana
4	J	Mango
3	E	Papaya
2	F	Grapes
1	H	Melon

S35. Ans.(d)

Sol. From the given statements, the one who lives on 6th floor likes Apple. The one who lives on 2nd floor likes G

Floor	Person	Fruit
6		Apple
5		
4		
3		
2		Grapes
1		

There are th . D lives on the odd number floo respective

Floor	Person	Fruit
6		Apple
5	D	
4		
3	E	Papaya
2		Grapes
1	H	Melon

J likes Mang not mmed tely ab ve the o f H. Ve no is on c persons and one of them na . S the nal arr ge s- is-

Floor	Person	Fruit
6	G	Apple
5	D	Banana
4	J	Mango
3	E	Papaya
2	F	Grapes
1	H	Melon

S36. Ans.(a)

Sol. From the given statements, the one who lives on 6th floor likes Apple. The one who lives on 2nd floor likes Grapes.

Floor	Person	Fruit
6		Apple
5		
4		
3		
2		Grapes
1		

There are three persons live between H and D. D lives above the floor of H. E and H live on the odd number floor and they like Papaya and Melon respectively.

Floor	Person	Fruit
6		Apple
5	D	
4		
3	E	Papaya
2		Grapes
1	H	Melon

J likes Mango. G does not live immediately above the floor of H. We know F is one of the persons and one of them likes banana. So, the final arrangement is-

Floor	Person	Fruit
6	G	Apple
5	D	Banana
4	J	Mango
3	E	Papaya
2	F	Grapes
1	H	Melon

S37. Ans.(c)

Sol. From th lives on 6 lives on 2nd floor likes G

Floor	Person	Fruit
6		Apple
5		
4		
3		
2		Grapes
1		

There are th so liv be een H d . D live bove th floor o E a on the odd number floo they like P paya an Melon respectiv y.

Floor	Person	Fruit
6		Apple
5	D	
4		
3	E	Papaya
2		Grapes
1	H	Melon

J likes Mango. G does not live immediately above the floor of H. We know F is one of the persons and one of them likes banana. So, the final arrangement is-

Floor	Person	Fruit
6	G	Apple
5	D	Banana
4	J	Mango
3	E	Papaya
2	F	Grapes
1	H	Melon

S38. Ans.(a)
Sol. I. V < Z (True) **II.** V = Z (False)

S39. Ans.(d)
Sol. I. L ≥ G (False) **II.** G < L (False)

S40. Ans.(a)
Sol. I. M > E (True) **II.** O > K (False)

S41. Ans.(a)
Sol.
Given sum = Rs. X.
ATQ,
$X \times \frac{120}{100} \times \frac{120}{100} = 3456$
X = 2400 Rs.

S42. Ans.(d
Sol.
Let the speed of the boat in still water = 5s
So, speed of the stream = $5x \times \frac{40}{100} = 2s$
ATQ,
$(5s + 2s) = \frac{140}{10}$
s = 2 km/hr
Required time = $\frac{60}{5s-2s}$
$= \frac{60}{3s} = \frac{60}{3\times2} = 10$ hr.

S43. Ans.(b
Sol.
Required number of days = $\frac{48\times80\times2}{16} = 480\ days$

S44. Ans.(d)
Sol.
Let the present age of son = x
So, present age of father = $x \times \left(1 + \frac{200}{100}\right) = 3x$
ATQ
$\frac{3x+5}{x+5} = \frac{7}{3}$
9x+15 = 7x+35
x = 10 years
Required age = 3x+3 = 33 years

S45. Ans.(a)

Sol.

$$\text{ATQ}, \frac{11000\times12}{13200\times X} = \frac{1}{1}$$

$$X = 10$$

S46. Ans.(b)

Sol.

$$\text{Required percentage} = \frac{180-120}{120} \times 100 = 50\%$$

S47. Ans.(c)

Sol.

$$\text{Required average} = \frac{80+100+60}{3} = 80$$

S48. Ans.(d)

Sol.

$$\text{Required difference} = 90\text{-}60 = 30$$

S49. Ans.(a)

Sol.

$$\text{Required ratio} = \frac{140}{160} = 7:8$$

S50. Ans.(b)

Sol.

$$\text{Required percentage} = \frac{70}{100} \times 100 = 70\%$$

S51. Ans.(b)

Sol.

$$\text{Required average} = \frac{350+250+325+475}{4}$$

$$= \frac{1400}{4} = 350$$

S52. Ans.(d)

Sol.

$$\text{Total number of laptops manufactured in year 2016 \& 2017} = 450 + 350 = 800$$

$$\text{Total number of printers manufactured in 2016 \& 2017} = 350 + 250 = 600$$

$$\text{Required percentage} = \frac{800-600}{600} \times 100 = 33\frac{1}{3}\%$$

S53. Ans.(e)
Sol.

Sold units of printers in 2018 $= \frac{(100-20)}{100} \times 325 = 260$

Sold units of laptops in 2018 $= \frac{(100-25)}{100} \times 200 = 150$

So, required sum $= 260 + 150 = 410$

S54. Ans.(c)
Sol.

Required ratio $= \frac{225+275}{325+475} = \frac{500}{800} = 5:8$

S55. Ans.(a
Sol.

From the line graph we can say,

Maximum number of printers and laptops manufactured in 2016 $= 350 + 450 = 800$

S56. Ans.(a
Sol.

Profit percentage $= \frac{30800-(26600+1400)}{26600+1400} \times 100 = 10\%$

S57. Ans.(d
Sol.

Let four consecutives even numbers are a, a+2, a+4 and a+6 respectively.

ATQ

$a + a + 2 + a + 4 = 108$

$a = 34$

$\therefore$ required no. $= a \times (a + 6) = 34 \times 40$

$= 1360$

S58. Ans.(e
Sol.

Required ratio $= \pi \times 7 \times 7 : 2 \times \pi \times \frac{7}{2}$

$= 7:1$

S59. Ans.(c)
Sol.

Speed of man = 2 m/sec

Speed of train $= 72 \times \frac{5}{18} = 20$ m/sec

$\therefore$ Length of train $= (20 - 2) \times 10 = 180$ m

$\therefore$ Length of tunnel $= 54 \times 20 - 180 = 900$ m

S60. Ans.(c)
Sol.

Let two numbers are x and y respectively

According to question.

$\frac{70\times x}{100} = \frac{30\times y}{100}$

$\Rightarrow \frac{x}{y} = \frac{3}{7}$

$\Rightarrow x = \frac{3}{7}y$ ...(i)

Now average of numbers = $\frac{x+y}{2} = 48$

$\Rightarrow x + y = 96$ ...(ii)

Put value of x from (i) into (ii)

$\Rightarrow \frac{3}{7}y + y = 96$

$\Rightarrow \frac{10y}{7} = 96$

$\Rightarrow y = 67.2$

$\Rightarrow x = 96 - 67.2 = 28.8$

Larger number = 67.2

S61. Ans.(e
Sol.

$\frac{80 \times 170}{100} + \frac{3}{4} \times 216 - 10 = ? \times 6$

136 + 162-10 = ? × 6

$\frac{288}{6} = ?$

48 = ?

S62. Ans.(c
Sol.

$? = \frac{3}{8} \times 600 + \frac{1}{7} \times 210$

? = 225 + 30

? = 255

S63. Ans.(c)
Sol.

? = 48 + 6 - 5

? = 49

S64. Ans.(c)
Sol.

? = 236 + 160

? = 396

S65. Ans.(a)

Sol.

$\frac{1}{4} \times 124 + 35\%\ of\ 60 = ?$

$31 + \frac{7}{20} \times 60 = ?$

$31 + 21 = ?$

$52 = ?$

S66. Ans.(a)

Sol.

$? = \sqrt{15 \div 3 + 24 \div 6}$

$? = \sqrt{5 + 4}$

$? = \sqrt{9}$

$? = 3$

S67. Ans.(a

Sol.

$\frac{144 \times 12 \times 36 \times 36}{432} = ?$

$? = 5184$

S68. Ans.(d

Sol.

$45 + \frac{20}{100} \times ? = \frac{460}{4}$

$45 + \frac{?}{5} = 115$

$? = 350$

S69. Ans.(c

Sol.

$11^2 + 23^2 + ? = 800$

$121 + 529 + ? = 800$

$? = 800 - 650$

$? = 150$

S70. Ans.(e)

Sol.

$? + 432 - 206 = 550$

$? = 550 - 226$

$? = 324$

S71. Ans.(d)

Sol.

$2^5 + 2^{10} = ? \times 12$

$\frac{2^5(1+32)}{12} = ?$

$\Rightarrow \ ? = 88$

S72. Ans.(a)

Sol.

Total number of boys participated $= 7000 \times \frac{9}{14} = 4500$

Total number of girls participated $= 7000 - 4500 = 2500$

number of boys participated in Tennis $= \frac{30}{100} \times 4500 = 1350$

number of girls participated in Hockey $= 1350 \times \frac{100}{125} = 1080$

number of boys participated in Hockey $= 2530 - 1080 = 1450$

number of boys participated in Kabaddi $= 4500 - 1350 - 1450 = 1700$

number of girls participated in Tennis and Kabaddi $= 2500 - 1080 = 1420$

number of girl participated in Tennis = No. of girls participated in Kabaddi + 20

So, number of girls participated in Tennis = 720

And number of girls participated in Kabaddi = 700

Required number $= 1350 + 720 = 2070$

S73. Ans.(d

Sol.

Total number of boys participated $= 7000 \times \frac{9}{14} = 4500$

Total number of girls participated $= 7000 - 4500 = 2500$

number of boys participated in Tennis $= \frac{30}{100} \times 4500 = 1350$

number of girls participated in Hockey $= 1350 \times \frac{100}{125} = 1080$

number of boys participated in Hockey $= 2530 - 1080 = 1450$

number of boys participated in Kabaddi $= 4500 - 1350 - 1450 = 1700$

number of girls participated in Tennis and Kabaddi $= 2500 - 1080 = 1420$

number of girl participated in Tennis = No. of girls participated in Kabaddi + 20

So, number of girls participated in Tennis = 720

And number of girls participated in Kabaddi = 700

Required percentage $= \frac{1700-700}{700} \times 100 = 142\frac{6}{7}\%$

S74. Ans.(c)

Sol.

Total number of boys participated $= 7000 \times \frac{9}{14} = 4500$

Total number of girls participated $= 7000 - 4500 = 2500$

number of boys participated in Tennis $= \frac{30}{100} \times 4500 = 1350$

number of girls participated in Hockey $= 1350 \times \frac{100}{125} = 1080$
number of boys participated in Hockey $= 2530 - 1080 = 1450$
number of boys participated in Kabaddi $= 4500 - 1350 - 1450 = 1700$
number of girls participated in Tennis and Kabaddi $= 2500 - 1080 = 1420$
number of girl participated in Tennis = No. of girls participated in Kabaddi + 20
So, number of girls participated in Tennis = 720
And number of girls participated in Kabaddi = 700

Required ratio $= \frac{1450}{700} = \frac{29}{14}$

S75. Ans.(d)
Sol.

Total number of boys participated $= 7000 \times \frac{9}{14} = 4500$
Total number of girls participated $= 7000 - 4500 = 2500$
number of boys participated in Tennis $= \frac{30}{100} \times 4500 = 1350$
number of girls participated in Hockey $= 1350 \times \frac{100}{125} = 1080$
number of boys participated in Hockey $= 2530 - 1080 = 1450$
number of boys participated in Kabaddi $= 4500 - 1350 - 1450 = 1700$
number of girls participated in Tennis and Kabaddi $= 2500 - 1080 = 1420$
number of girl participated in Tennis = No. of girls participated in Kabaddi + 20
So, number of girls participated in Tennis = 720
And number of girls participated in Kabaddi = 700

Required percentage $= \frac{720}{1080} \times 100 = \frac{200}{3}\%$
$= 66\frac{2}{3}\%$

S76. Ans.(c)
Sol.

The pattern of the series is-
$9 + 5 = 14$
$14 + 15 + 29$
$29 + 25 = 54$
$54 + 35 = 89$
$89 + 45 = 134$
$134 + 55 = 189$
So, the wrong no. is 179.

S77. Ans.(d)
Sol.

The pattern of the series is –
$2 \times 1 + 1 = 3$
$3 \times 2 + 1 = 7$
$7 \times 3 + 1 = 22$
$22 \times 4 + 1 = 89$
$89 \times 5 + 1 = 446$
$446 \times 6 + 1 = 2677$
So, the wrong no. is 1.

S78. Ans.(e)

Sol.

The pattern of the series is –

$2^2 + 1 = 5$

$3^2 - 1 = 8$

$4^2 + 1 = 17$

$5^2 - 1 = 24$

$6^2 + 1 = 37$

$7^2 - 1 = 48$

$8^2 + 1 = 65$

So, the wrong no. is 39.

S79. Ans.(c)

Sol.

The pattern of the series is-

$32 \times 2 = 64$

$64 \div 4 = 16$

$16 \times 6 = 96$

$96 \div 8 = 12$

$12 \times 10 = 120$

$120 \div 12 = 10$

So, the wrong no. is 8.

S80. Ans.(a)

Sol.

The pattern of the series is –

$18 + 3 = 21$

$21 + 5 = 26$

$26 + 7 = 33$

$33 + 11 = 44$

$44 + 13 = 57$

$57 + 17 = 74$

So, the wrong no. is 17.