

$$131 + 17 = 148$$

$$148 + 19 = 167$$

$$167 + 23 = 190$$

$$190 + 29 = 219$$

$$219 + 37 = 256$$

Here addition is based on

$$17 + 2 = 19, 19 + 4 = 23,$$

$$23 + 6 = 29, 29 + 8 = 37$$

69. Ans. E.

Given number 8, 6, 9, 23, ?

The pattern of given series is:

$$8 \times 1 - 2 = 6$$

$$6 \times 2 - 3 = 9$$

$$9 \times 3 - 4 = 23$$

$$23 \times 4 - 5 = \mathbf{87}$$

70. Ans. D.

Given number series

-1, 244, 163, 190, 181, ?,

The pattern is as follows

$$1 + 243 = 244$$

$$244 - 81 = 163$$

$$163 + 27 = 190$$

$$190 - 9 = 181$$

$$181 + 3 = \mathbf{184}$$

71. Ans. B.

Total no. of students in these subjects

$$= (20\% + 22\% + 28\%) \text{ of } 3000 = 2100$$

Average no. of students = 700

72. Ans. A.

Economics appeared students = 75% of 20%

$$\text{Of } 3000 = 450$$

$$\text{Failed students} = 20\% \text{ of } 450 = 90$$

73. Ans. D.

Required difference

$$= (20\% + 28\%) - (22\% + 15\%) = 11\% \text{ of}$$

$$3000 = 330$$

74. Ans. C.

Required difference = $((4-3)/7)$ of 28% of

$$3000 = 120$$

75. Ans. A.

No. of male students = 80% of 15% of

$$3000 + 60\% \text{ of } 15\% \text{ of } 3000 = 630$$

which the operations should be done is:

Priority wise operations	Symbol
B-Bracket	()
O-Of	Of
D-Division	/, ÷
M-Multiplication	*, ×
A-Addition	+
S-Subtraction	-

Note: Addition and subtraction can be treated on same priority (from left to right) when they are in consecutive order.

$$? = 1234 + 2345 - 3456 + 4567$$

$$? = 3579 - 3456 + 4567$$

$$? = 123 + 4567$$

$$? = 4690$$

77. Ans. E.

As per the **BODMAS** rule, the priority in which the operations should be done is:

Priority wise operations	Symbol
B-Bracket	()
O-Of	Of
D-Division	/, ÷
M-Multiplication	*, ×
A-Addition	+
S-Subtraction	-

Note: Addition and subtraction can be treated on same priority (from left to right) when they are in consecutive order.

$$(115/5) + 12 \times 6 = ? + (64/4) - 35$$

$$23 + 72 = ? + 16 - 35$$

$$95 = ? - 19$$

$$95 + 19 = ?$$

$$? = 114$$

78. Ans. A.

$$\frac{45}{100} \times 400 + \sqrt{?} = \frac{56}{100} \times 750 - \frac{40}{100} \times 350$$

$$180 + \sqrt{?} = 420 - 140$$

$$180 + \sqrt{?} = 280$$

$$\sqrt{?} = 280 - 180$$

$$\sqrt{?} = 100$$

$$? = 100^2$$

$$? = 10000$$

79. Ans. B.

Distance travelled by boat in

upstream = 24 km

Time taken = 6 h

$$\text{Speed of the boat in upstream} = 24/6 = 4 \text{ km/h}$$

Time taken = 4h

Speed of the boat in downstream

$$= 20/4 \text{ km/h} = 5 \text{ km/h}$$

Now, speed of the boat in still water = $1/2$ [speed of the boat in upstream + speed of the boat in downstream]

$$= 1/2 [4 + 5] = 1/2 \times 9 = 4.5 \text{ km/h}$$

And speed of the current = $1/2$ [speed of the boat in downstream - speed of the boat in upstream] = $1/2 [5 - 4] = 1/2 \times 1 = 0.5 \text{ km/h}$

80. Ans. D.

$$p = \frac{PX4X9}{100} - \frac{PX2X12}{100} = 480$$

$$= \frac{12p}{100} = 480$$

$$P = 4000$$

81. Ans. A.

Total sum of age of 80 students of the class = $15 \times 80 = 1200$ years

$$15 \text{ students} \rightarrow 15 \times 16 = 240 \text{ years}$$

$$25 \text{ students} \rightarrow 25 \times 14 = 350 \text{ years}$$

$$\text{Sum of 40 students} = 590 \text{ years}$$

$$\text{Total age of remaining 40 students} = 1200 - 590 = 610$$

$$\text{So, average age} = \frac{610}{40} = 15.25 \text{ years}$$

82. Ans. D.

Clearly, If 60 % is equally divided then remaining 40% of total profit will be divided between 2 persons A and B in ratio of (profit of A) : (profit of B) = $12,500 : 8500 = 125 : 85 = 25:17$

$$\text{now difference in amount} = 25 - 17 = 8$$

$$\text{this difference} = 240$$

therefore

$$40\% \text{ of total profit} = 240 \times \frac{(25+17)}{(25-17)} = 1260$$

$$\therefore 100\% \text{ profit} = 1260 / 40 \times 100 = 3150$$

83. Ans. D.

Ratio of length and breadth is 6 : 5

$$\therefore \text{Length} = 6x$$

$$\text{Breadth} = 5x$$

$$\therefore \text{Area} = l \times b = 30x^2$$

$$= 22x$$

$$\therefore \frac{30x^2}{22x} = 60/11$$

$$\therefore X = 4$$

$$\therefore \text{Length} = 6x$$

$$= 6 \times 4 = 24 \text{ units}$$

84. Ans. A.

$$\text{Quantity I} = 20\% - 10\% - (20 \times 10 / 100)\% = +8\%$$

$$\text{Quantity II} = 30\% - 20\% - (30 \times 20 / 100)\% = +4\%$$

Hence Quantity I > Quantity II

85. Ans. C.

Quantity I = Let the three numbers will be $5x$, $6x$ and $10x$ respectively

$$\text{ATQ } 10x + 5x - 6x = 126$$

$$9x = 126$$

$$X = 14$$

$$\text{So largest number} = 10x = 10 \times 14 = 140$$

Quantity II = let x and y are two numbers

ATQ

$$12\% \text{ of } x = 25\% \text{ of } y$$

And their difference is 78

$$\text{So first no.} = 150$$

$$2^{\text{nd}} \text{ no.} = 72$$

Hence Quantity I < Quantity II

86. Ans. C.

Quantity I = Let 3 year ago the age of A and B be $3x$ and $4x$ respectively

Then

$$\text{ATQ } 3x + 5 + 4x + 5 = 45$$

$$X = 5$$

$$\text{Hence present age of A} = 3x + 3 = 18 \text{ year}$$

Quantity II = Let 5 year ago the age of p and q be $3x$ and $4x$ respectively

Then ATQ

$$3x + 11 = 4x + 5$$

$$X = 6$$

$$\text{Hence present age of P} = 3x + 5 = 23$$

Hence Quantity I < Quantity II

87. Ans. A.

$$\text{Quantity I} = 15\% \text{ of Principle} = 4800$$

$$\text{Principle} = \text{Rs. } 32000$$

$$\text{Quantity II} = 12.36\% \text{ of Principle} = 3708$$

$$\text{Principle} = \text{Rs. } 30000$$

Hence Quantity I > Quantity II

Quantity I: Let d be the distance covered

ATQ

$$d/(6-3) - d/(6+3) = 8$$

$$d = 36 \text{ km}$$

Quantity II: ATQ

$$d/(25-15) + d/(25+15) = 2$$

$$D = 16 \text{ km}$$

Hence Quantity I > Quantity II

89. Ans. B.

$$x^2 - 11x + 28 = 0$$

$$x^2 - 7x - 4x + 28 = 0$$

$$x(x-7) - 4(x-7) = 0$$

$$(x-4)(x-7) = 0$$

$$x = 4, 7$$

$$y^2 - 18y + 81 = 0$$

$$y^2 - 9y - 9y + 81 = 0$$

$$y(y-9) - 9(y-9) = 0$$

$$(y-9)(y-9) = 0$$

$$y = 9, 9$$

So, $x < y$.

90. Ans. C.

$$3x^2 - 14x + 16 = 0$$

$$3x^2 - 6x - 8x + 16 = 0$$

$$3x(x-2) - 8(x-2) = 0$$

$$(3x-8)(x-2) = 0$$

$$x = 8/3 \text{ or } 2$$

$$5y^2 - 16y + 12 = 0$$

$$5y^2 - 10y - 6y + 12 = 0$$

$$5y(y-2) - 6(y-2) = 0$$

$$(5y-6)(y-2) = 0$$

$$y = 6/5 \text{ or } 2$$

Can't be determined.

91. Ans. E.

$$\text{I. } 2x^2 + 19x + 42 = 0$$

$$2x^2 + 12x + 7x + 42 = 0$$

$$2x(x+6) + 7(x+6) = 0$$

$$(2x+7)(x+6) = 0$$

$$x = -7/2, -6$$

$$\text{II. } 4y^2 + 43y + 30 = 0$$

$$4y^2 + 40y + 3y + 30 = 0$$

$$4y(y+10) + 3(y+10) = 0$$

$$(4y+3)(y+10) = 0$$

$$y = -3/4, -10$$

So answer is no relation.

$$\text{I. } x^2 + 2x - 15 = 0$$

$$= (x+15)(x-13)$$

$$\Rightarrow x = -15, 13$$

$$\text{II. } y^2 + 30y + 225 = 0$$

$$= (y+15)(y+15)$$

$$\Rightarrow y = -15, -15$$

So $x \geq y$

93. Ans. E.

$$\text{I. } 2x^2 - 13x - 189 = 0$$

$$2x^2 - 27x + 14x - 189 = 0$$

$$x(2x-27) + 7(2x-27) = 0$$

$$x = -7, 27/2$$

$$\text{II. } 2y^2 - 3y - 189 = 0$$

$$2y^2 - 21y + 18y - 189 = 0$$

$$y(2y-21) + 9(2y-21) = 0$$

$$y = -9, 21/2$$

When x , as well as y , have both positive and negative values then **no relationship can be established** between them because if we consider x to be positive then the negative value of y will be lesser than x . If we consider x to be negative then positive value of y will be greater than x .

94. Ans. A.

Let the number X is 100

Then, $P\% = 80$

$Q\% = 72$

So, Percentage decrease from P to Q is $\frac{80-72}{80} \times 100 = 10\%$

A is the right choice.

95. Ans. D.

suppose the ages of Sunil and Anil are $8x$ yr and $7x$ yr, respectively.

After 6 yr,

$$\frac{8x+6}{7x+6} = \frac{19}{17}$$

$$\frac{8x+6}{7x+6} = \frac{19}{17}$$

$$136x + 102 = 133x + 114$$

$$136x - 133x = 114 - 102$$

$$3x = 12$$

$$x = 12/3 = 4$$

$$\text{Age of Sunil} = 8x = 8 \times 4 = 32 \text{ yr}$$

$$\text{Present age Anil} = 7x = 7 \times 4 = 28 \text{ yr}$$

$$\text{Required difference} = (32 - 28) = 4 \text{ yr}$$

-1004 / 1029 which the operations should be done is:

Priority wise operations	Symbol
B-Bracket	()
O-Of	Of
D-Division	/, ÷
M-Multiplication	*, ×
A-Addition	+
S-Subtraction	-

Note: Addition and subtraction can be treated on same priority (from left to right) when they are in consecutive order.

$$600 + (300/15) = ? \times 31$$

$$600 + 20 = ? \times 31$$

$$? = 620/31 = 20$$

97. Ans. B.

As per the **BODMAS** rule, the priority in which the operations should be done is:

Priority wise operations	Symbol
B-Bracket	()
O-Of	Of
D-Division	/, ÷
M-Multiplication	*, ×
A-Addition	+
S-Subtraction	-

when they are in consecutive order.

$$65\% \times 700 + 14 - 9 \times 3$$

$$65 \times (700/100) + 14 - 27$$

$$455 + 14 - 27 = 442$$

98. Ans. D.

$$41\% \text{ of } 600 - 250 = ? - 77\% \text{ of } 900$$

$$\Rightarrow 246 - 250 = ? - 693$$

$$\Rightarrow 246 - 250 + 693 = ?$$

$$\Rightarrow ? = 689$$

99. Ans. E.

$$12.5 \times 3.2 \times 8.8 = 352$$

100. Ans. B.

$$52000 \div 40 \div 65 \times 30 = ? - \sqrt{400}$$

$$(52000 \div 40) \div 65 \times 30 = ? - 20$$

$$(1300 \div 65) \times 30 = ? - 20$$

$$20 \times 30 = ? - 20$$

$$600 = ? - 20$$

$$? = 620$$

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Seating Arrangement- Triangular

Directions (1-5) : Answer the questions based on the information given below:

There are six persons J, K, L, M, N and O are sitting around a triangular table such that three of them sit at the corners and other three of them sit on the middle side of the table. The one who sit at corner of the table faces away from the centre and the one who sits at middle side of the table faces towards the centre. They like different subjects i.e. Reasoning, English, Quant, Physics, Chemistry, and Computer but not necessarily in the same order.

M faces the centre and sits third to the right of the one who likes Physics. N sits immediate right to M. N does not like Chemistry and Reasoning. The one who likes Reasoning sits at corner. The one who likes Computer sits immediate right to the one who likes Chemistry. O sits at one of the corner but does not like Physics and

Computer. L sits second to the right of K, who likes English.

- What is the position of J with respect to who likes chemistry?**
 - Immediate left
 - Second to left
 - Second to right
 - Third to right
 - Cannot be determined
- What is the position of K with respect to M?**
 - second to right
 - immediate left

Expected Seating Arrangement- Triangular (Two tier) for Mains Exam

- (c) third to right
- (d) second to left
- (e) immediate right

3. Who likes Chemistry subject?

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

4. Who is third to the left of who likes Reasoning?

- (a) O
- (b) K
- (c) N
- (d) J
- (e) L

5. N likes which subject?

- (a) Chemistry
- (b) Reasoning
- (c) Computer
- (d) Quant
- (e) None of these

Directions (6-10) : Answer the questions based on the information given below:

Six persons S, T, U, V, W and X are sitting in a triangular table. Three of them sitting at corner while other three are sits at the middle of the side. Some of them facing centre and some of them facing outside the

centre. Each of them have saving accounts in different banks Hdfc, SBI, Canara, PNB, BOB and BOM.

The one who has saving account in Hdfc sits immediate right to one who has saving account in PNB. X has saving accounts in Canara. U and one who has saving account in SBI both are facing opposite direction. W sits at corner and faces centre. The one who has saving accounts in SBI sits second to the left of W. U sits second to the left of S who faces outside. S is an immediate neighbor of W. S has saving account in BOB. The one who has saving account in BOB sits immediate left of V. T and W are facing opposite directions. The one who has saving account in Hdfc and the one who has saving account in BOB and both are facing same directions. W sits third to right of X who facing inside.

6. What is the position of W with respect to V?

- (a) third to right
- (b) second to right
- (c) third to right
- (d) fourth to right
- (e) Cannot be determined

7. What is the position of S with respect to who has saving account in BOM?

- (a) second to right
- (b) immediate left
- (c) third to right
- (d) second to left
- (e) immediate right

8. Who sits second to right of one who has saving account in Canara?

- (a) S

- (b) U

(c) X

(d) T

(e) Cannot be determined
9. Who is sitting third to the left of one who has saving account in SBI?

- (a) X

(b) S

(c) U

(d) W

(e) V

10. W sits opposite to who has saving account in?

- (a) PNB

(b) Hdfe

(c) Canara

(d) BOB

(e) SBI

Directions (11-15) : Answer the questions based on the information given below:

There are six persons J, K, L, M, N and O are sitting around a triangular table such that three of them sit at the corners and other three of them sit on the middle side of the table. The one who sit at corner of the table faces away from the centre and the one who sits at middle side of the table faces towards the centre. They belong different cities i.e. Noida, Delhi, Bhopal, Agra, Indore, and Jaipur but not necessarily in the same order.

The one who belongs to Agra sits second to the right of K. O does not belongs to Bhopal. Two people sit between the one who belongs to Bhopal and the one who

belongs Delhi. Two people sits between J and who belongs to Noida. The one who belongs to Delhi sits second to the right of the one who belongs to Noida. N belongs to Jaipur and sits second to the right of the one who belongs to Indore. M faces to the centre. L sits immediate left of the one who belongs to Bhopal. K and M are not immediate neighbors.

11. Who sits to the immediate left of L?

- (a) O

(b) M

(c) K

(d) J

(e) None of these

12. Who sits second to the left of who belongs from Agra?

- (a) O

(b) K

(c) M

(d) L

(e) None of these

13. N is sitting third to the left of who belongs to?

- (a) Agra

(b) Jaipur

(c) Bhopal

(d) Noida

(e) None of these

14. Who is sitting second to the right of who belongs to Jaipur?

- (a) O
- (b) J
- (c) M
- (d) L
- (e) None of these

15. How many persons sits between K and N from right of N?

- (a) One
- (b) Four
- (c)Three
- (d) Six
- (e) None of these

Directions (16-20) : Answer the questions based on the information given below:

There are nine persons A, B, C, D, E, G, H and I are sitting around a triangular table facing the centre and all of them sitting in alphabetical order in the clockwise directions. One person sitting in corner of each side and two person sitting in middle side of each side. Each person likes different mobile phones i.e. Redmi, Oppo, Iphone, Realme, Vivo, Nokia, Samsung, Poco and Oneplus but not necessarily in the same order.

The one who likes Redmi sits third to the right of C. The one who likes Vivo sits second to the right of C who likes Nokia. C sits at one of the corners. There are two persons sit between who likes Poco and Redmi. The one who likes Realme sits to the immediate left of who likes Oppo and neither of them likes E nor D . There are two persons sit between the one who likes Oppo and the one who likes Iphone. The one who likes Samsung is either B or I. I sits at one of the corners.

16. What is the position of F with respect to I?

- (a) third to right
- (b) second to left
- (c) third to right
- (d) fourth to right
- (e) Cannot be determined

17. What is the position of A with respect to who likes Samsung?

- (a) second to right
- (b) immediate left
- (c) third to right
- (d) second to left
- (e) immediate right

18. Who likes Realme mobile phone?

- (a) A
- (b) H
- (c) G
- (d) B
- (e) E

19. Who sits second to the right of who likes Oppo?

- (a) F
- (b) A
- (c) H
- (d) E
- (e) B

20. Who sits third to left of the who likes Oneplus?

- (a) F

- (b) C
- (c) H
- (d) B
- (e) G

Directions (21-25) : Answer the questions based on the information given below:

There are eight persons A, B, C, D, E, F, G and H sitting around a triangular table and all are facing towards the centre but not necessarily in the same order. One person sit on each corner, two person sit at each inclined side and only one person sit on horizontal side of triangle. Each one of them studying in different institutions i.e. IIT, NIT, IBM, BHU, JNU, DU, SMU and AMU but not necessarily in the same order.

The person who studying in IIT is an immediate neighbor of both the persons who studying in DU and SMU. The person who studying in SMU sits third to the right of B. B does not studying in JNU. C sits to the immediate right of the person who studying in IBM. A does not like IBM. F is not an immediate neighbor of A. G is not an immediate neighbor of the person who studying in IIT. A sits third to the right of who studying in AMU. Neither A nor H studying in JNU and NIT. The one who studying in JNU is not an immediate neighbor of the person who studying in AMU. The person who studying in IIT sits second to the left of E. E is not an immediate neighbor H. Only two people sit between the person who studying in AMU and H. The one who studying in AMU and JNU sits at corner. The person who studying in JNU and the NIT are immediate neighbors of each other.

- 21. Who is to the immediate left of who studying in AMU?**
- (a) D
 - (b) G

- (c) B
- (d) H
- (e) E

22. Who sits second to the left of D?

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

23. Who is sitting third to the left of who studying in BHU?

- (a) C
- (b) H
- (c) A
- (d) F
- (e) None of these

24. Who is sitting second to the right of D?

- (a) H
- (b) B
- (c) C
- (d) F
- (e) None of these

25. Who sits third to the right to who studying in IBM?

- (a) D
- (b) G

- (c) C
- (d) H
- (e) None of these

Directions (26-30) : Answer the questions based on the information given below:

There are six people A, B, C, D, E and F are sitting around a triangular table in such a way that three of them sit at corner and other three sit on the middle of side of the table. All of them facing towards the centre. They have born in different years i.e. 1992, 1993, 1994, 1995, 1996 and 1997 but not necessarily in the same order.

F sits at one of the corners of the table. C sits at one of the corners and either born in 1992 or 1996. The one who sits immediate right of C borns in 1995 and A sits opposite of the one who born in 1995. A does not born in 1997. E does not sit at any corners and does not born in 1996 or 1994. D sits immediate left of A and born in 1993. The one who born in 1996 does not sit on any corners of the table.

26. What is the position of D with respect to who borns in 1992?

- (a) third to right
- (b) second to left
- (c) third to left
- (d) fourth to right
- (e) Either option (a) or (c)

27.What is the position of F with respect to who borns in 1993?

- (a) second to right
- (b) third to right
- (c) immediate left

- (d) second to left
- (e) immediate right

28. Who sits third to right the who borns in 1996?

- (a) E
- (b) A
- (c) C
- (d) E
- (e) F

29.Who sits immediate right of who borns in 1994?

- (a) Who borns in 1995
- (b) Who borns in 1996
- (c) Who borns in 1993
- (d) Who borns in 1992
- (e) Who borns in 1997

30.How many person sit between A and E from right of E?

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

Directions (31-35) : Answer the questions based on the information given below:

There are six persons A, B, C, D, E and F are sitting around a triangular table such that three of them sit at the corners and other three of them sit on the middle side of the table. The one who sit at corner of the table faces towards the centre and the one who sits at middle side of

the table faces away from the centre. They like different colours i.e. Black, Green, White, Pink, Red and Blue but not necessarily in the same order.

The one who likes Black sits at corner of the table. E does not sit at corner. A likes neither Pink nor Blue. There are no one sits between the one who likes Black and F. A sits second to the right of one who likes Black. C likes Green. Only one person sits between the one who likes Black and D. One who likes Blue sits immediate right of one who likes Pink. B does not sit adjacent to A. One who likes Red sits second to the right of the one who likes Blue.

31. Who sits to the immediate right of who likes Red?

- (a) A
- (b) D
- (c) F
- (d) B
- (e) C

32. Who among the following likes Pink?

- (a) C
- (b) A
- (c) F
- (d) B
- (e) D

33. Who sits third to the left of who likes Green?

- (a) F
- (b) A
- (c) E
- (d) B

(e) D

34. Which colour B likes?

- (a) Green
- (b) Black
- (c) Pink
- (d) White
- (e) Blue

35. How many persons sit between who likes Blue and White from left of White?

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

Directions (36-40) : Answer the questions based on the information given below:

There are six persons A, B, C, D, E and F are sitting in a triangular table. Three of them sit at corner of the table facing towards the centre and three of them sit at the middle side of the table facing away from centre. Each of them belongs from different sports i.e. Cricket, Football, Tennis, Volleyball, Wrestling and Boxing but not necessarily in the same order.

D sits second to the right of F. F sits immediate left to the person who belongs to Football. C sits second to the left of B who sits immediate right of A. Person who belongs to Wrestling faces outside the centre and sits immediate left to the one who belongs to Tennis. A and F do not belongs to Tennis. E does not belongs to Volleyball or Boxing. A does not belongs to Boxing. A and D don't belongs to Wrestling. B does not belongs to

Tennis. D sits at one of the corner of the table. Only one person sit between E and one who belongs to Football.

36. Who sits to the immediate left of who belongs to Volleyball?

- (a) E
- (b) B
- (c) D
- (d) C
- (e) F

37. Who sits to the second left of who belongs to Wrestling?

- (a) F
- (b) B
- (c) E
- (d) D
- (e) A

38. Who sits second to the right of F?

- (a) Who belongs to Wrestling
- (b) Who belongs to Tennis
- (c) Who belongs to Cricket
- (d) Who belongs to Volleyball
- (e) Who belongs to Football

39. Who is second to the left of who belongs from Football?

- (a) E
- (b) D
- (c) A

- (d) C
- (e) F

40. How many persons are between D and the one who play Boxing when counted from the right of D?

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

Directions (41-45) : Answer the questions based on the information given below:

Six friends A, B, C, D, E and F are sitting around a triangular table in such way that three of them are at the corners and other three are at the middle of each side of the table. All are facing away from the center of the table. They obtained different marks in IBPS exam i.e. 55, 60, 65, 70, 75 and 80 not necessarily in the same order.

E sits at middle of the one of the side of the table and his marks is either 60 or 70. F is at one of the corners but not immediate to E and his marks is neither 55 nor 75. The marks of the one who is immediate left of F is 70. A's marks is 80 and he is immediate right of B . D sits at one of the corners of the table and his marks is less than C's marks. The marks of the one who is immediate right of E is not 55.

41. Who is sitting third to the right of A?

- (a) B
- (b) E
- (c) D
- (d) C

(e) None of these

42. What is the position of B with who obtains 75 marks?

(a) Immediate right

(b) Immediate left

(c) Third to the right

(d) Third to the left

(e) None of these

43. What is A’s position with respect to who obtains 55 marks?

(a) Third to the right

(b) Second to the right

(c) Immediate right

(d) Second to the left

(e) Third to the left

44. Who is sitting third to the right of who obtains 65 marks?

(a) B

(b) F

(c) A

(d) C

(e) E

45. Which one of the following statements is true according to the above mentioned arrangement?

(a) A obtains 65 marks.

(b) B obtains 55 marks.

(c) C obtains 75 marks.

(d) F obtains 70 marks.

(e) None of these

Directions (46-50) : Answer the questions based on the information given below:

Six doctors P, Q, R, S,T and U are sitting around a triangular table in such a way that three of them are at the corners and rest of them are at the center of each side . All of them are facing the center of the table . They work in different hospitals AIIMS, LNJP, MAX, Fortis, RML and KGMU not necessarily in the given order .

P sits at one of the corner of the table and does not work in MAX. U does not works in Fortis. P and S are immediate neighbours. There are two doctors sit between S and who works in AIIMS. U sit third to right of one who works in MAX. There are only one person sit between one who works in AIIMS and MAX. T does not work in MAX or AIIMS. There are two doctors sit between who works in LNJP and one who works in RML. T does not works in LNJP. The one who works in Fortis sits immediate left of Q.

46. Who is to the immediate left of who works in LNJP?

(a) P

(b) U

(c) R

(d) S

- (e) None of these
47. Who works in AIIMS hospital?
- (a) Q

(b) U

(c) T

(d) R

(e) None of these
48. Who is sitting third to the left of S?
- (a) R

(b) T

(c) U

(d) Q

(e) None of these
49. Who is immediate neighbors of who works in MAX hospital?

- (a) S and T

(b) U and Q

(c) S and P

(d) R and U

(e) None of these
50. Who is sitting fourth to the right of who works in KGMU hospital?
- (a) R

(b) P

(c) S

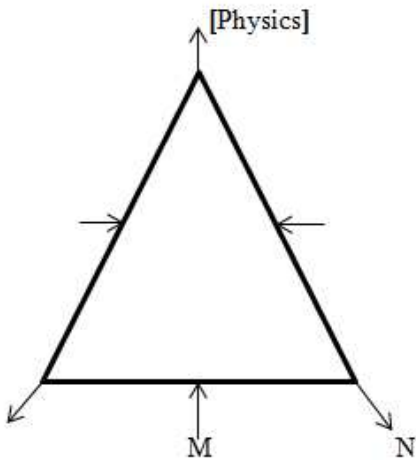
(d) Q

(e) T

Solution and Detailed Explanation

- SOLUTION(1-5):
- Explanation in detail:
1. M faces the centre and sits third to the right of the one who likes Physics.

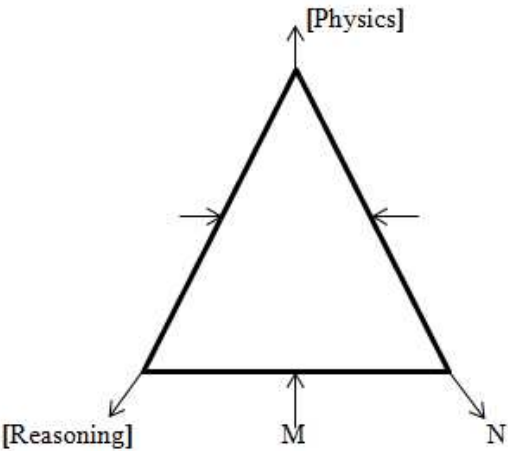
2. N sits immediate right to M.



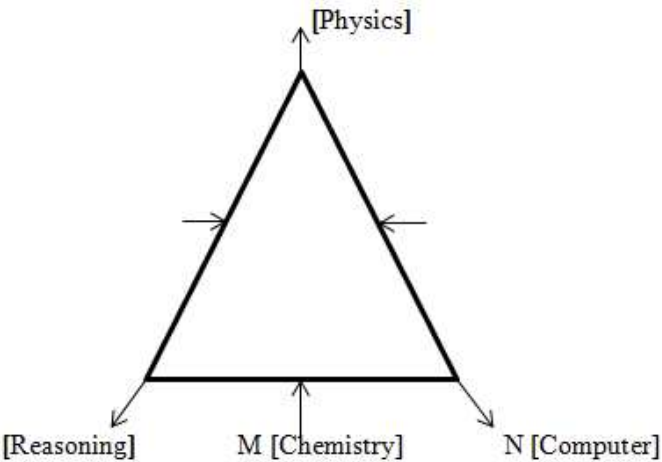
3. N does not like Chemistry and Reasoning.

Expected Seating Arrangement- Triangular (Two tier) for Mains Exam

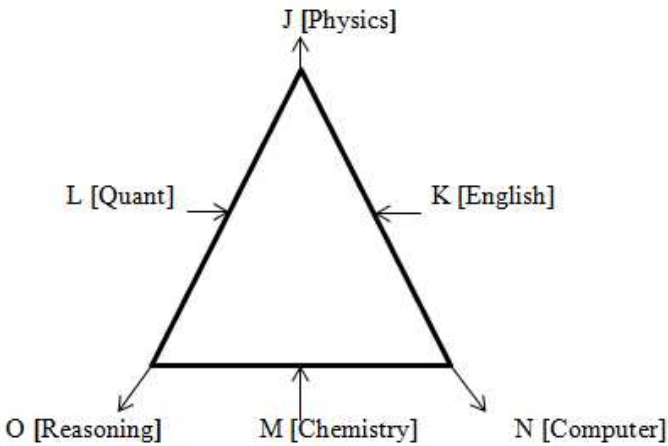
4. The one who likes Reasoning sits at corner.



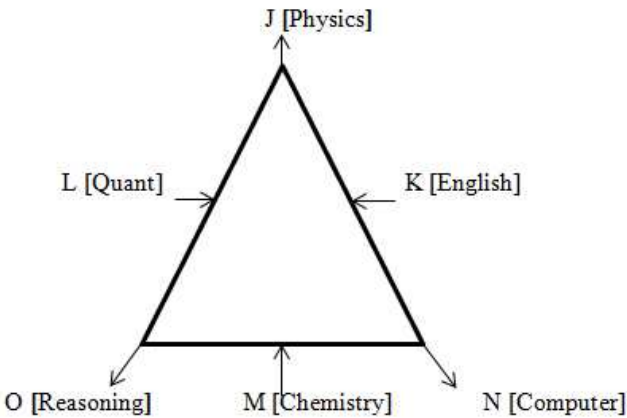
5. The one who likes Computer sits immediate right to the one who likes Chemistry.



6. O sits at one of the corner but does not like Physics and Computer.
7. L sits second to the right of K, who likes English.



Final arrangement:



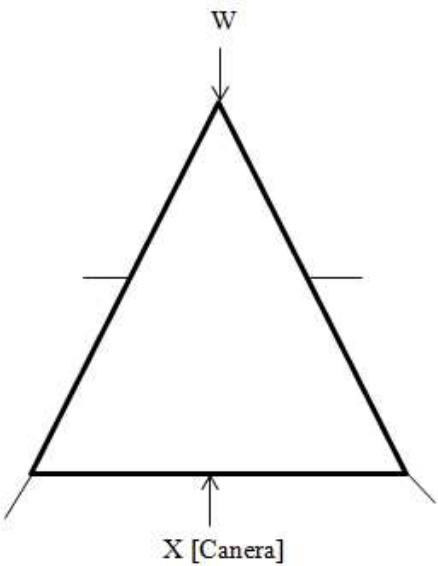
- 1. d
- 2. a
- 3. b
- 4. b
- 5. c

SOLUTION(6-10):

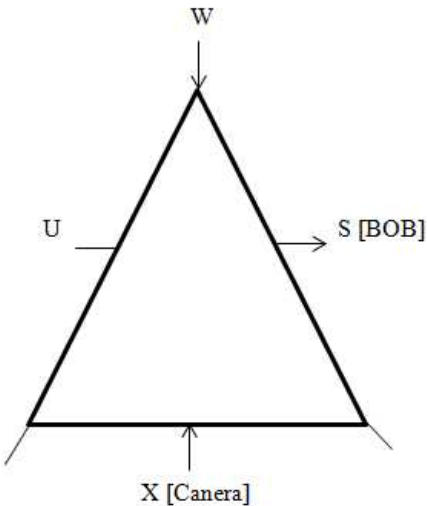
Explanation in detail:

Expected Seating Arrangement- Triangular (Two tier) for Mains Exam

- 1. W sits at corner and faces centre.
- 2. W sits third to right of X who facing inside.
- 3. X has saving accounts in Canera.

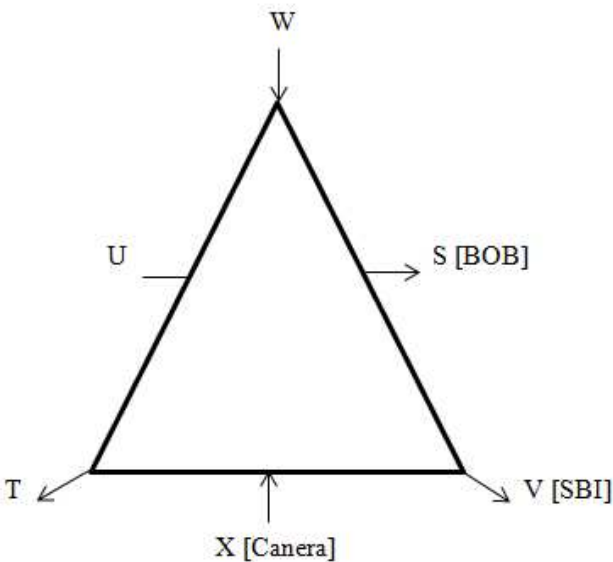


- 4. S is an immediate neighbor of W.
- 5. S has saving account in BOB.
- 6. U sits second to the left of S who faces outside.

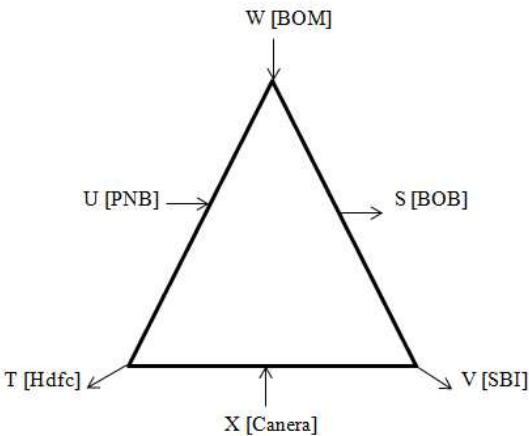


- 7. The one who has saving account in BOB sits immediate left of V.

- 8. T and W are facing opposite directions.
- 9. The one who has saving accounts in SBI sits second to the left of W.

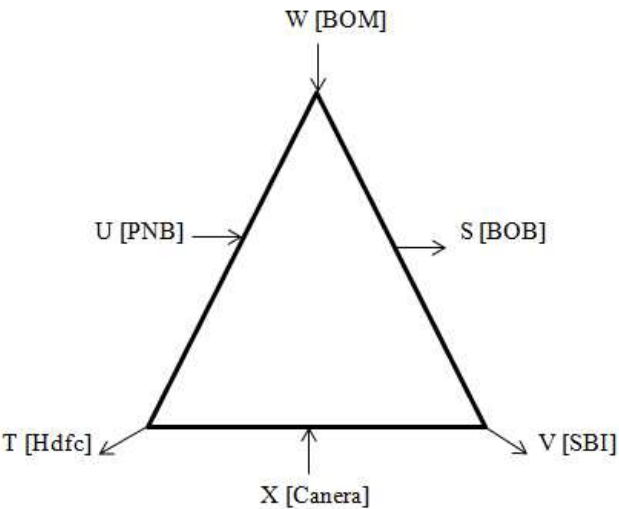


- 10. The one who has saving account in Hdfe and the one who has saving account in BOB and both are facing same directions.
- 11. The one who has saving account in Hdfe sits immediate right to one who has saving account in PNB.
- 12. U and one who has saving account in SBI both are facing opposite direction.



Expected Seating Arrangement- Triangular (Two tier) for Mains Exam

Final arrangement:



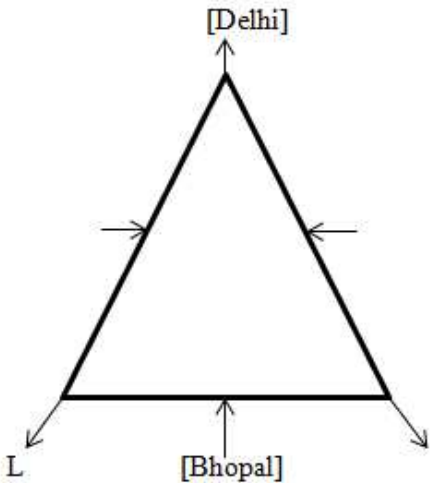
- 6. d
- 7. b
- 8. a
- 9. c
- 10. c

SOLUTION(11-15):

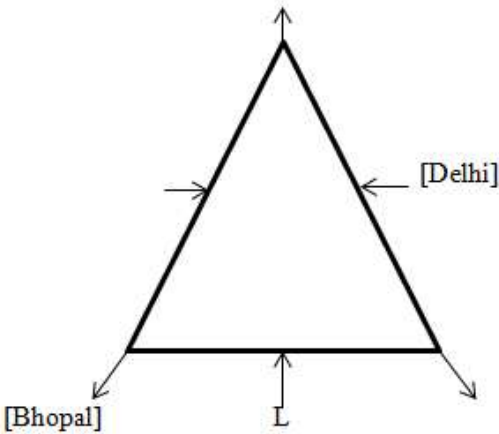
Explanation in detail:

- 1. L sits immediate left of the one who belongs to Bhopal.
- 2. Two people sit between the one who belongs to Bhopal and the one who belongs to Delhi.

CASE1:



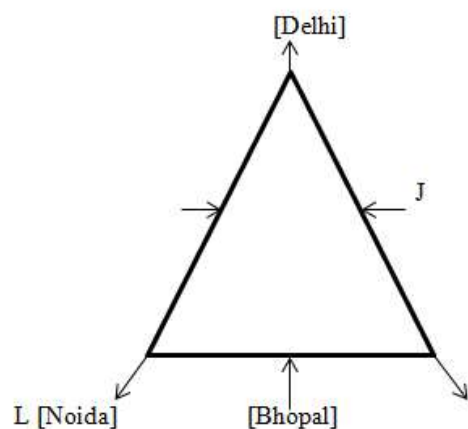
CASE2:



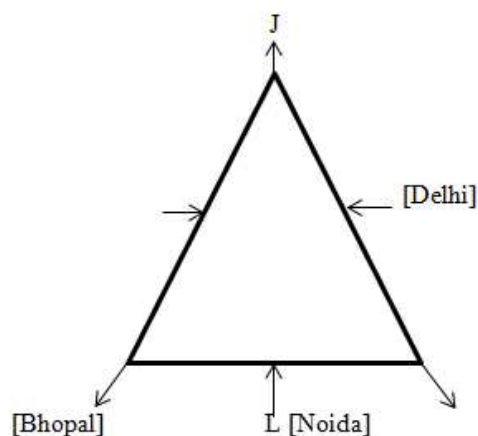
- 3. The one who belongs to Delhi sits second to the right of the one who belongs to Noida.
- 4. Two people sits between J and who belongs to Noida.

Expected Seating Arrangement- Triangular (Two tier) for Mains Exam

CASE1:

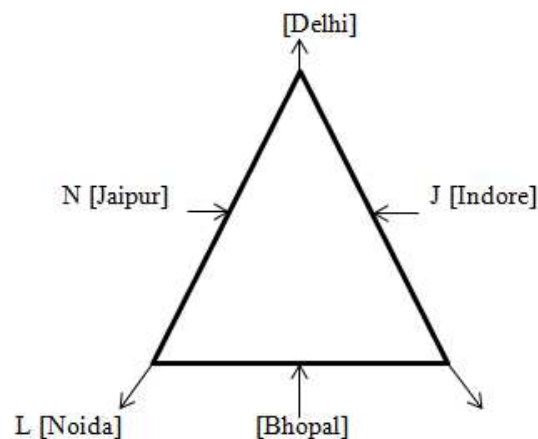


CASE2:

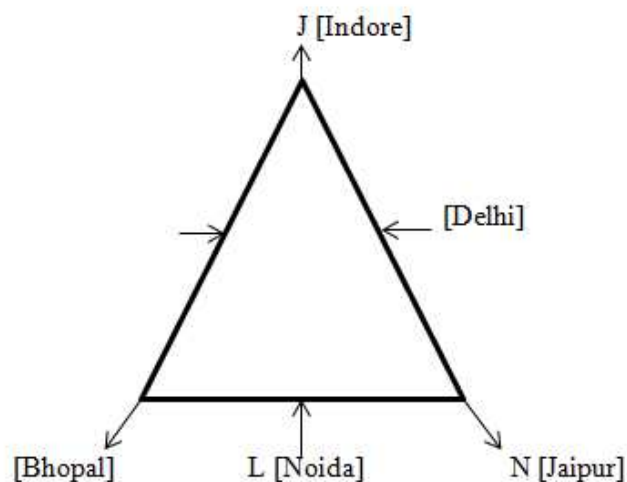


5. N belongs to Jaipur and sits second to the right of the one who belongs to Indore.

CASE1:



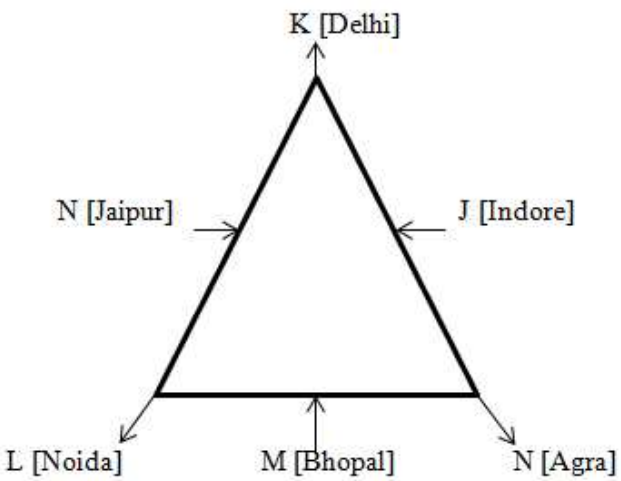
CASE2:



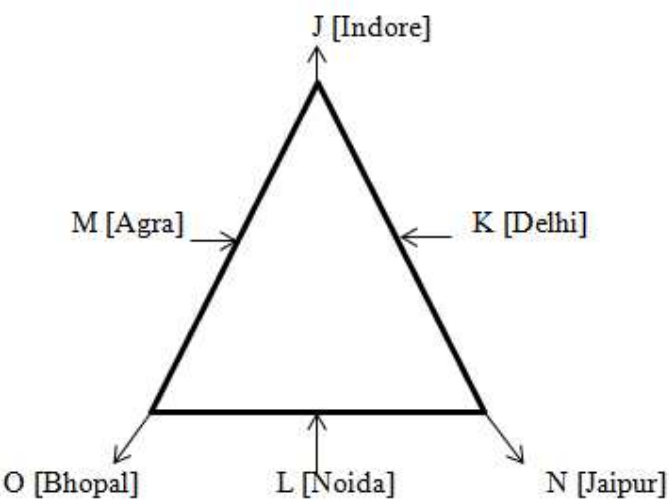
6. M faces to the centre.
7. K and M are not immediate neighbors.
8. The one who belongs to Agra sits second to the right of K.

Expected Seating Arrangement- Triangular (Two tier) for Mains Exam

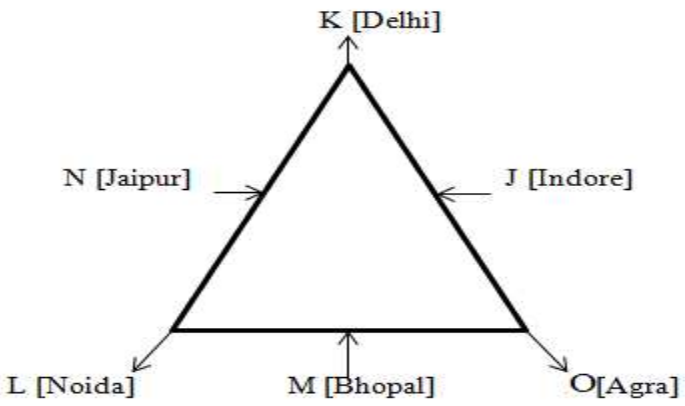
CASE1:



CASE2:



Final arrangement:



- 11. b
- 12. b
- 13. a
- 14. c
- 15. b

SOLUTION(16-20):

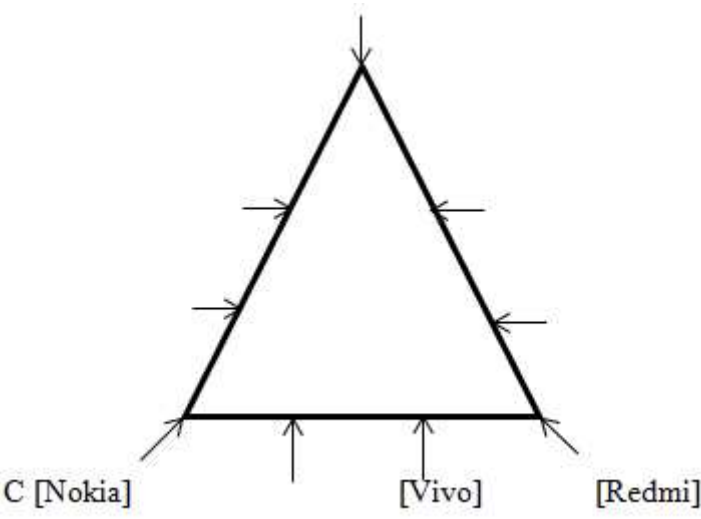
Explanation in detail:

- 1. The one who likes Vivo sits second to the right of C who likes Nokia.
- 2. C sits at one of the corners.
- 3. The one who likes Redmi sits third to the right of C.

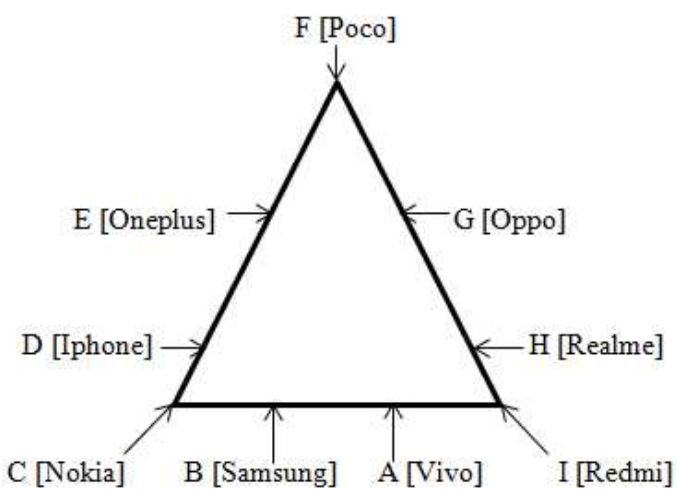
9. O does not belongs to Bhopal.

So CASE2 is cancelled out

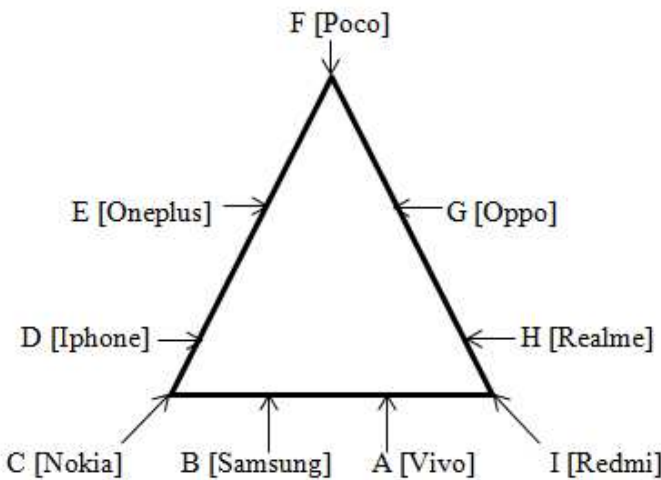
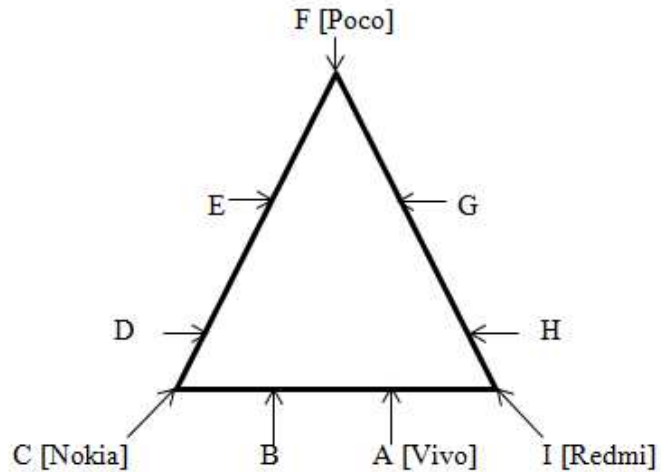
Expected Seating Arrangement- Triangular (Two tier) for Mains Exam



- 4. There are two persons sit between who likes Poco and Redmi.
- 5. All of them sitting in alphabetical order in the clockwise directions.
- 6. I sits at one of the corners.



Final arrangement:



- 7. The one who likes Realme sits to the immediate left of who likes Oppo and neither of them likes E nor D.
- 8. There are two persons sit between the one who likes Oppo and the one who likes Iphone.
- 9. The one who likes Samsung is either B or I.

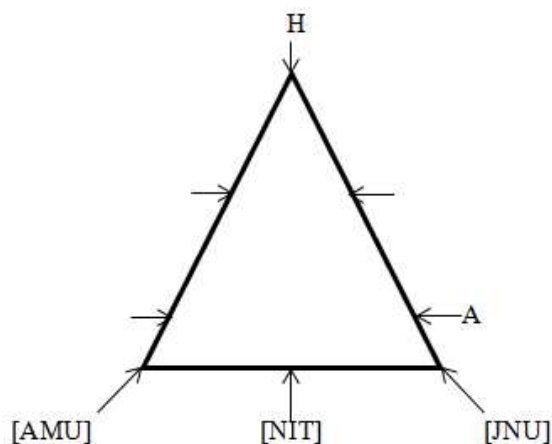
- 16. a
- 17. e
- 18. b
- 19. d
- 20. c

SOLUTION(21-25):

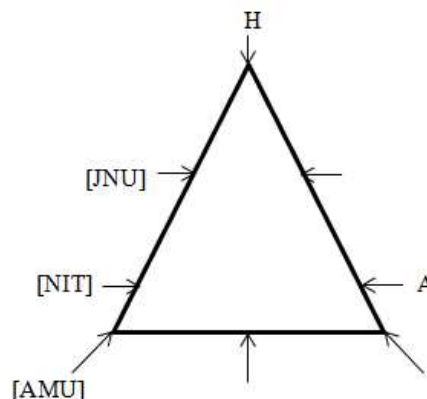
Explanation in detail:

1. A sits third to the right of who studying in AMU.
2. The one who studying in AMU and JNU sits at corner.
3. Only two people sit between the person who studying in AMU and H.
4. The person who studying in JNU and the NIT are immediate neighbors of each other.
5. Neither A nor H studying in JNU and NIT.
6. The one who studying in JNU is not an immediate neighbor of the person who studying in AMU.

CASE1:



CASE2:

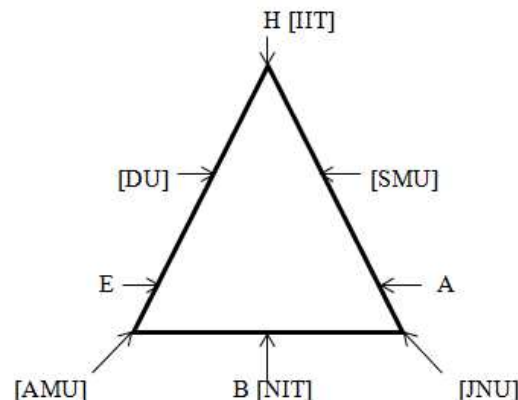


7. The one who studying in AMU and JNU sits at corner.

So CASE2 is cancelled out.

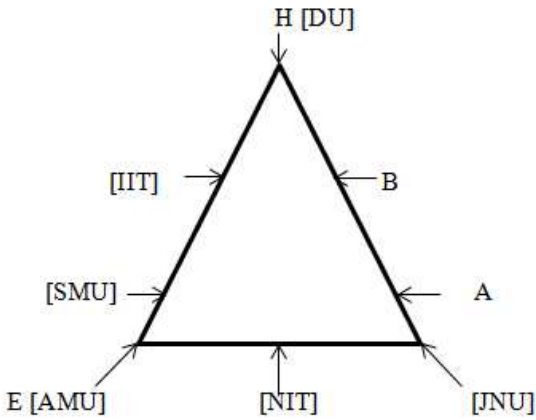
8. The person who studying in IIT sits second to the left of E.
9. E is not an immediate neighbor H.
10. The person who studying in IIT is an immediate neighbor of both the persons who studying in DU and SMU.
11. The person who studying in SMU sits third to the right of B.
12. B does not studying in JNU.

CASE1a:



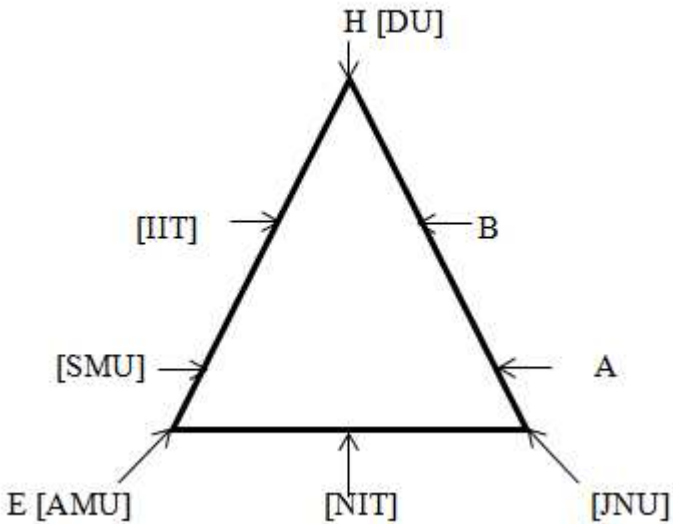
Expected Seating Arrangement- Triangular (Two tier) for Mains Exam

CASE1b:



- 13. C sits to the immediate right of the person who studying in IBM.
- 14. A doesnot like IBM.

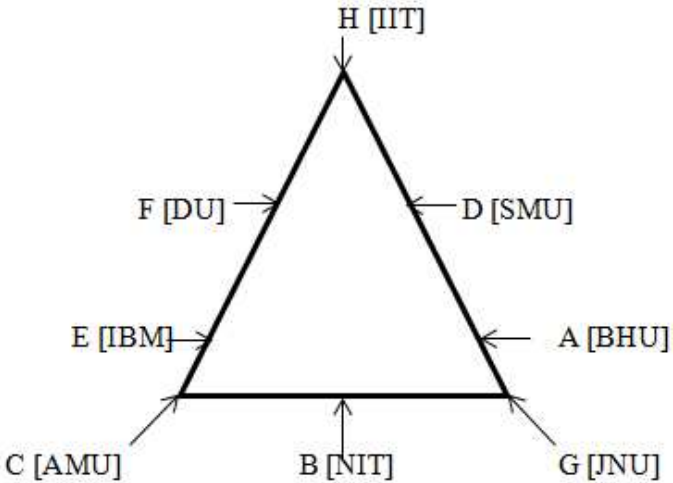
CASE1b:



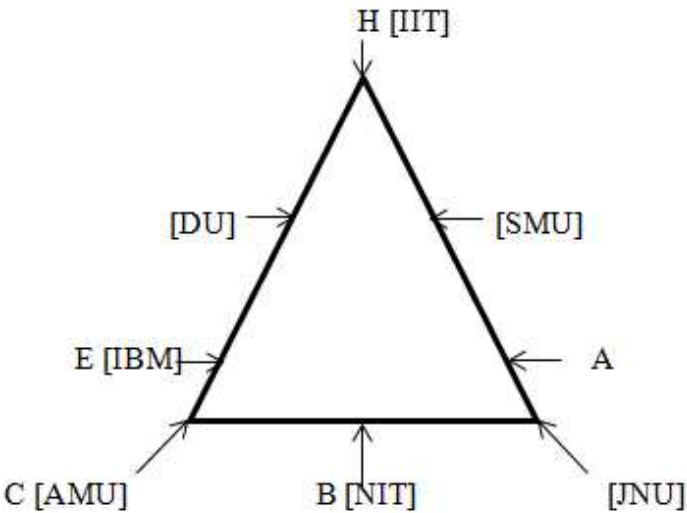
There is no such space for C in CASE1b so CASE1b is cancelled out.

- 15. F is not an immediate neighbor of A.
- 16. G is not an immediate neighbor of the person who studying in IIT.

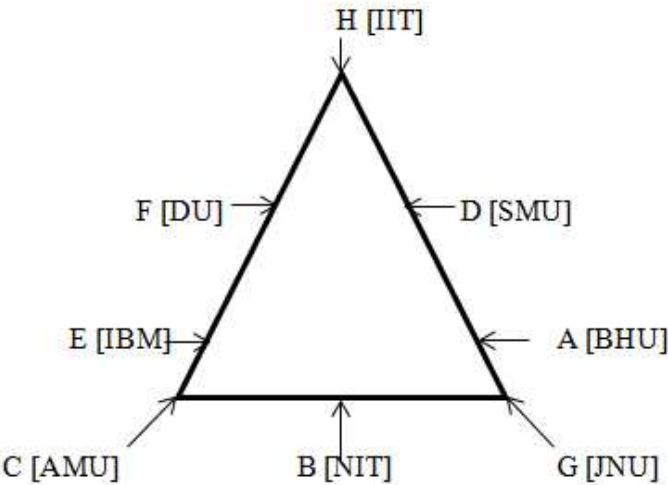
CASE1a:



CASE1a:



Final arrangement:

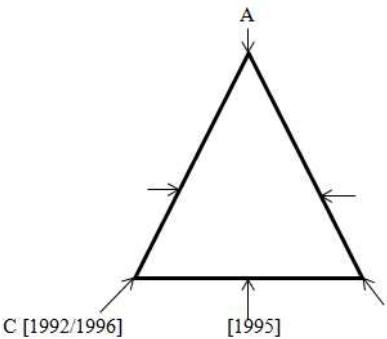


- 21. e
- 22. c
- 23. a
- 24. d
- 25. b

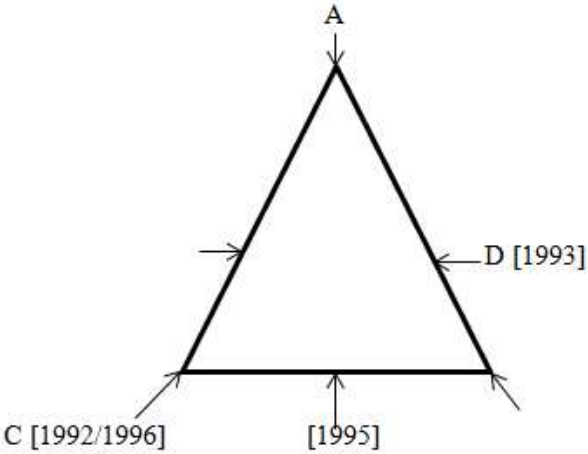
SOLUTION(26-30):

Explanation in detail:

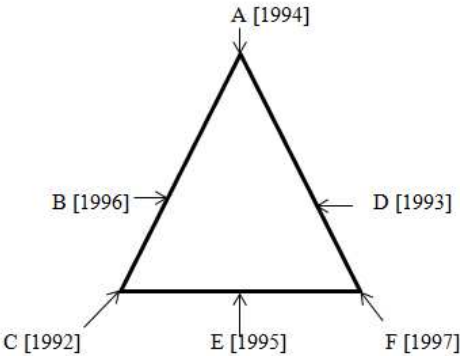
- 1. C sits at one of the corners and either born in 1992 or 1996.
- 2. The one who sits immediate right of C borns in 1995.
- 3. A sits opposite of the one who born in 1995.



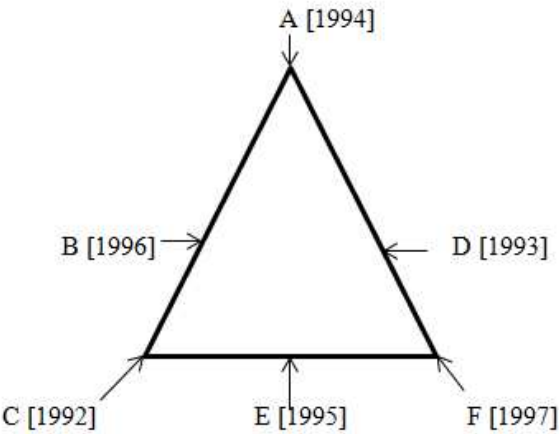
- 4. F sits at one of the corners of the table.
- 5. D sits immediate left of A and born in 1993.



- 6. A does not born in 1997.
- 7. E does not sit at any corners and does not born in 1996 or 1994.
- 8. The one who born in 1996 does not sit on any corners of the table.



Final arrangement:

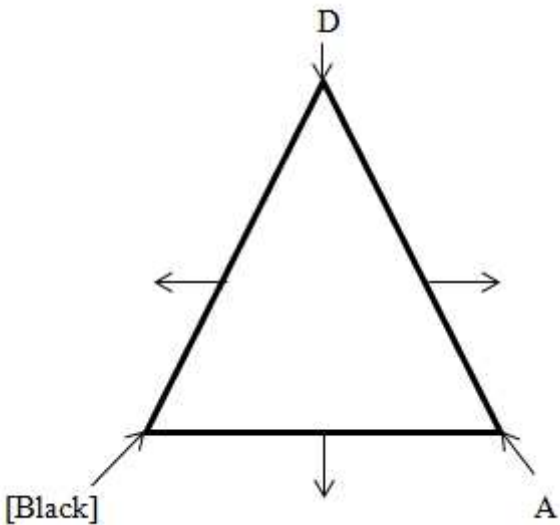


- 26. e
- 27. c
- 28. e
- 29. b
- 30. d

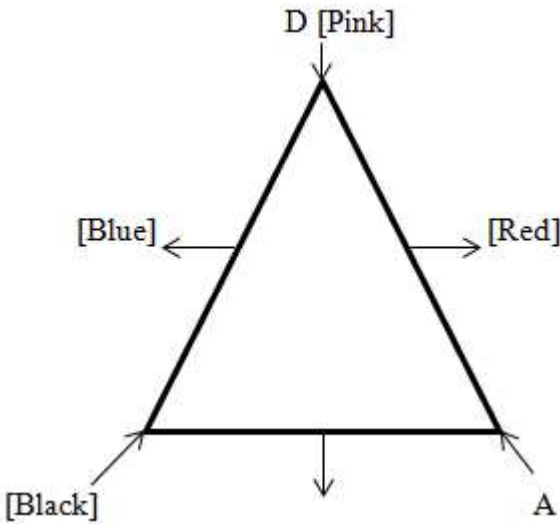
SOLUTION(31-35):

Explanation in detail:

- 1. The one who likes Black sits at corner of the table.
- 2. A sits second to the right of one who likes Black.
- 3. Only one person sits between the one who likes Black and D.

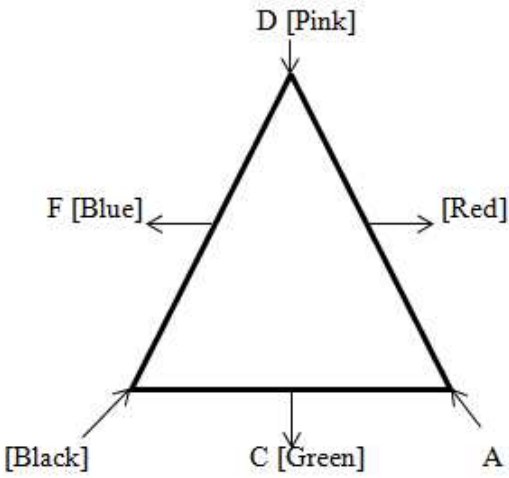


- 4. One who likes Blue sits immediate right of one who likes Pink.
- 5. One who likes Red sits second to the right of the one who likes Blue.
- 6. A likes neither Pink nor Blue.

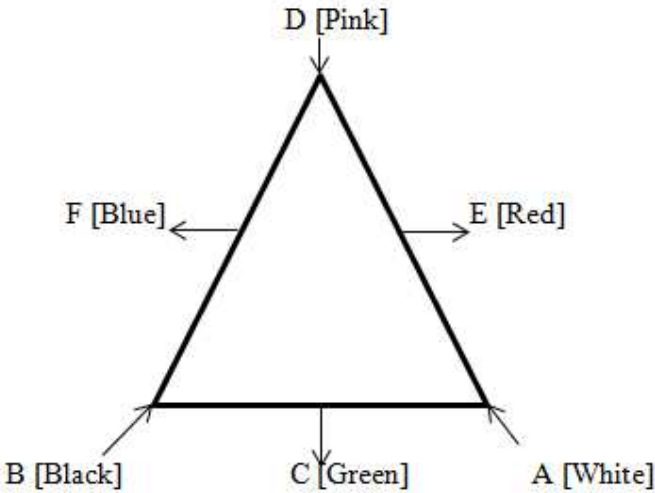


- 7. C likes Green.
- 8. F does not like Black.
- 9. There are no one sits between the one who likes Black and F.

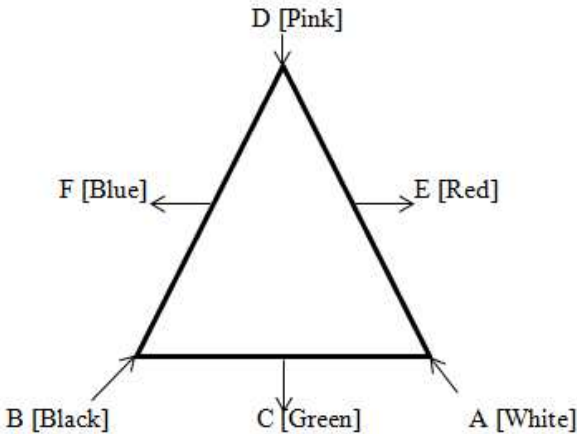
Expected Seating Arrangement- Triangular (Two tier) for Mains Exam



- 10. B does not sit adjacent to A.
- 11. E does not sit at corner.



Final arrangement:

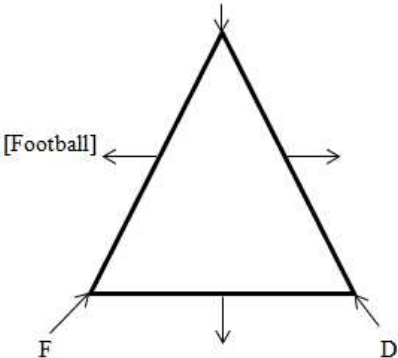


- 31. a
- 32. e
- 33. e
- 34. b
- 35. d

SOLUTION(36-40):

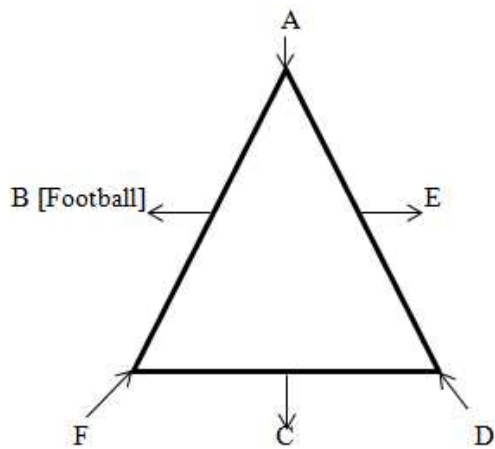
Explanation in detail:

- 1. D sits second to the right of F.
- 2. D sits at one of the corner of the table.
- 3. F sits immediate left to the person who belongs to Football.

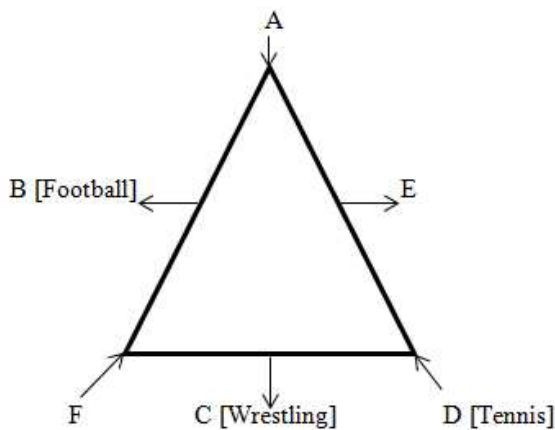


Expected Seating Arrangement- Triangular (Two tier) for Mains Exam

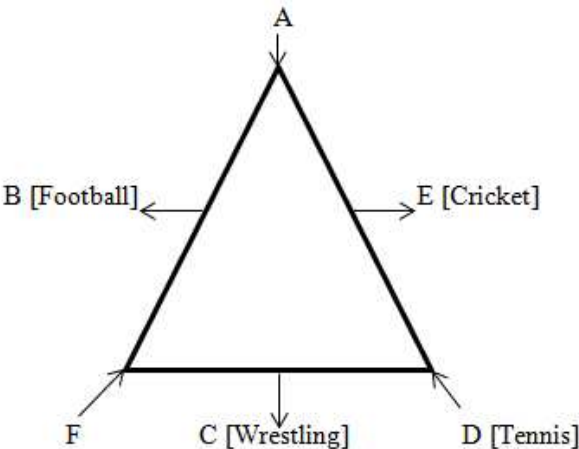
- 4. C sits second to the left of B who sits immediate right of A.
- 5. One person sit between E and one who belongs to Football.



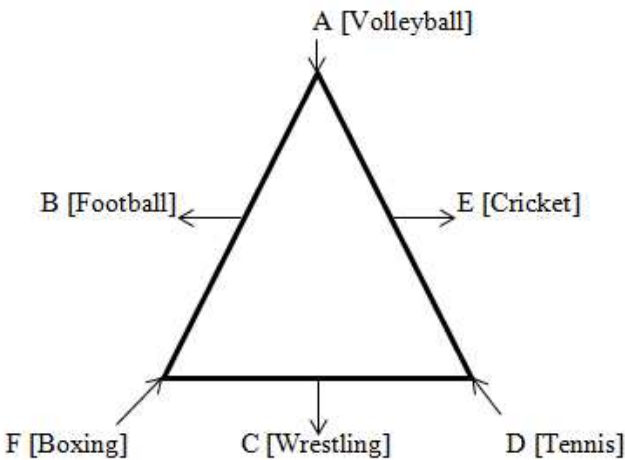
- 6. Person who belongs to Wrestling faces outside the centre and sits immediate left to the one who belongs to Tennis.
- 7. A and F do not belongs to Tennis.



- 8. E does not belongs to Volleyball or Boxing.
- 9. B does not belongs to Tennis.

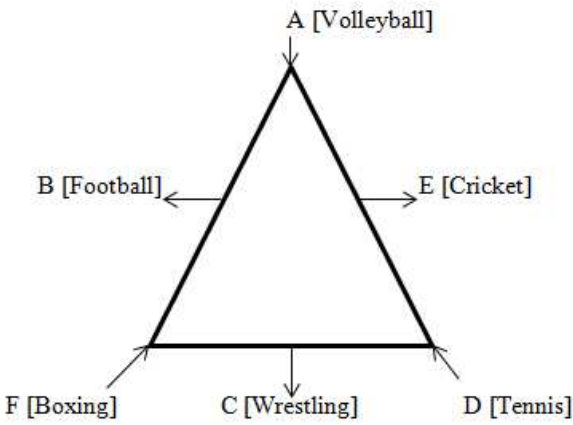


- 10. A does not belongs to Boxing.
- 11. A and D don't belongs to Wrestling.



Expected Seating Arrangement- Triangular (Two tier) for Mains Exam

Final arrangement:

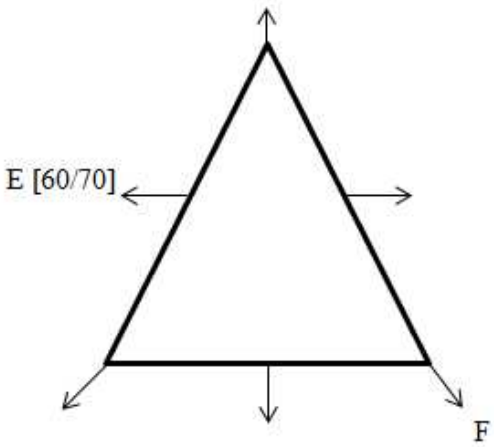


- 36. a
- 37. c
- 38. b
- 39. d
- 40. c

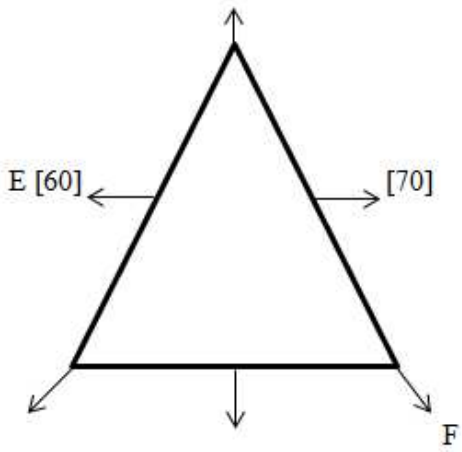
SOLUTION(41-45):

Explanation in detail:

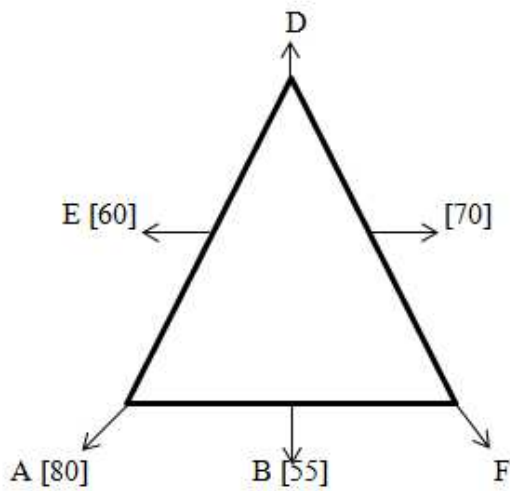
- 1. E sits at middle of the one of the side of the table and his marks is either 60 or 70.
- 2. F is at one of the corners but not immediate to E.



3. The marks of the one who is immediate left of F is 70.

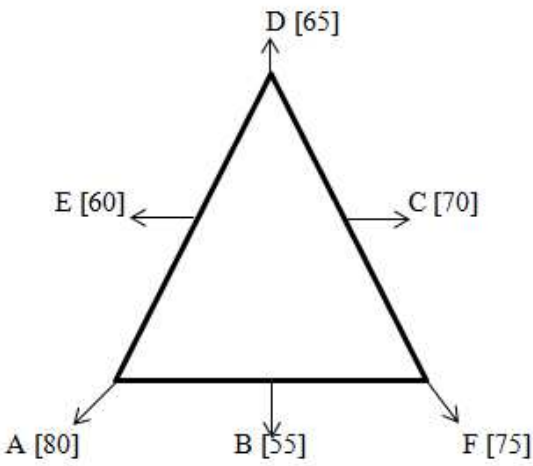


- 4. A's marks is 80 and he is immediate right of B.
- 5. D sits at one of the corners of the table.
- 6. The marks of the one who is immediate right of E is not 55.
- 7. F's marks is neither 55 or 65.

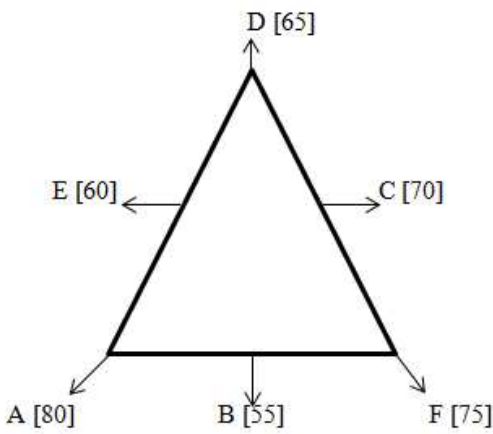


8. D's marks is less than C's marks.

Expected Seating Arrangement- Triangular (Two tier) for Mains Exam



Final arrangement:



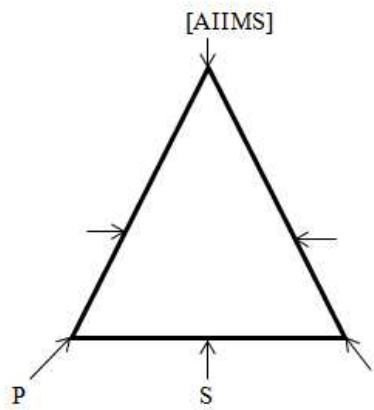
- 41. d
- 42. a
- 43. c
- 44. a
- 45. b

SOLUTION(46-50):

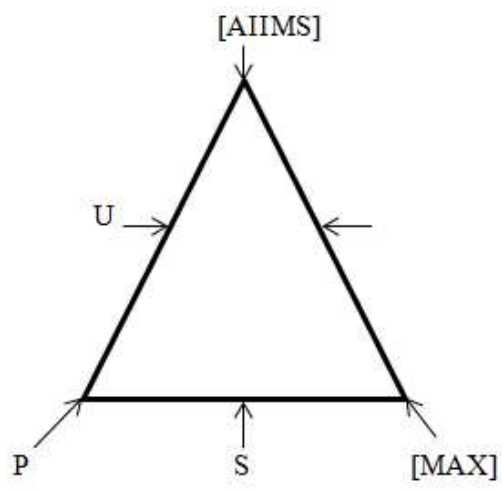
Explanation in detail:

- 1. P sits at one of the corner of the table.
- 2. P and S sits immediate right to each other.

3. There are two doctors sit between S and who works in AIIMS.

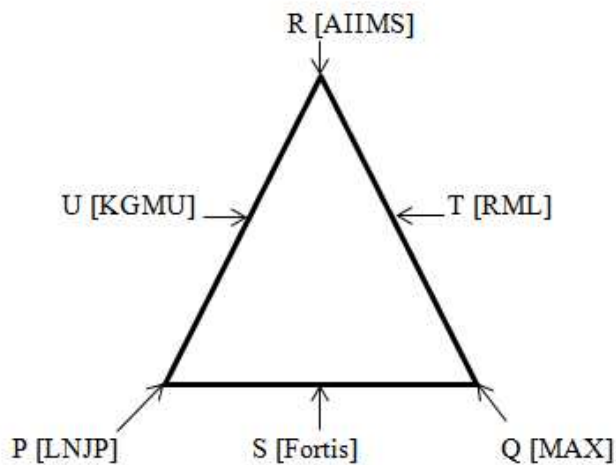


- 4. There are only one person sit between one who works in AIIMS and MAX.
- 5. P does not work in MAX.
- 6. U sit third to right of one who works in MAX.

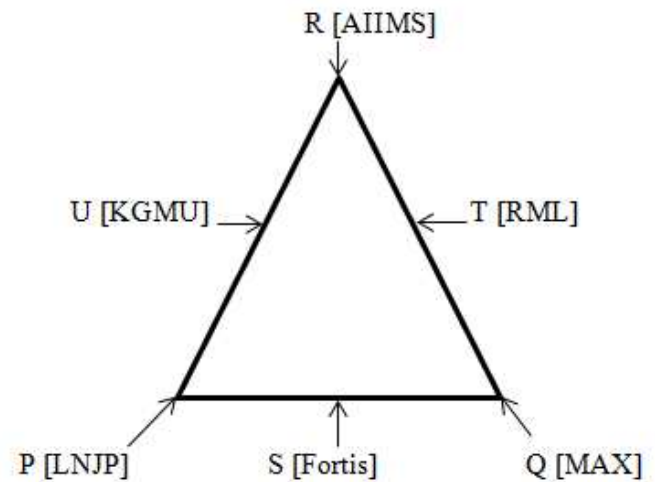


- 7. T does not work in MAX or AIIMS.
- 8. There are two doctors sit between who works in LNJP and one who works in RML.
- 9. T does not works in LNJP.
- 10. The one who works in Fortis sits immediate left of Q.

Expected Seating Arrangement- Triangular (Two tier) for Mains Exam



Final arrangement:



46. b

47. d

48. a

49. a

50. e

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