42)Which of the following statement is/are true?

A) G sits to the immediate right of the person who likes Pasta

B) Four persons sit between E and L

C) P does not like Dosa

D) Both A and B

E) Both A and C

43) How many persons sit between K and the person who likes Burger when counted anticlockwise from the person who likes Burger?

A) 3^2

B) 2^2

C) $3^3 - 2^3$

D) 2^3

E) None of these

44) What is cube of the number of persons sit between P and E?

A) 215

B) 125

C) 343

D) 216

E) 261

45) How many persons are sitting in a table?

A) 3×4

B) 7×2

C) 4×2

D) 5×3

E) 2×8

(Direction 41-45): Study the following information carefully and answer the given questions:

Certain number of persons sit on a L shaped table facing inside the table. Less than Eighteen persons sit in a table. Persons sit on the vertical side are north-south of each other and the persons sit on the horizontal side are east-west of each other.

P sits to the north of G who works in RBI but not immediate north. Less than four persons but at least one person sits to the north of P. Three persons sit between N and T who works in BOI and also sits to the immediate south of P. H sits at the extreme west of the table. G sits second to the left of H. G and N are not an immediate neighbours of each other. M sits to the west of R but not immediate west. R sits second from the right end of the table. Three persons sit between H and R who works in SBI. More than eight persons sit between N and M who sits sixth to the right of the person who works in BOI. Person who works in UCO sits second to the left of the person who works in PNB who sits fourth from the right end. Person who works in UBI sits three places away to the north of the person who works in OBC who also sits three places away to the north of the person who works in RBI.

46) Which of the following statement is/are not true?

A) N sits at the top of the table.

B) M works in SBI

C) Less than four persons sit between T and the person who works in PNB

D) Both A and B

E) Both B and C

47) Who among the following sits to the north-west of R?

A) Person who works in RBI

B) Person who works in PNB

C) Person who works in OBC

D) Person who works in UCO

E) Both A and C

48) What is the cube of the total number of persons sit between P and H?

A) 27

B) 343

C) 216

D) 64

E) 125

49) How many persons are sitting in a table?

A) 12

B) 13

C) 14

D) 15

E) 16

50) Which of the following statement is/are true?

A) H does not work in PNB

B) G sits to the north-east of M

C) P does not work in OBC

D) None is true

E) Both A and C

Seating Unknown Number of Person – Answer and Explanation

Answers (1-5):
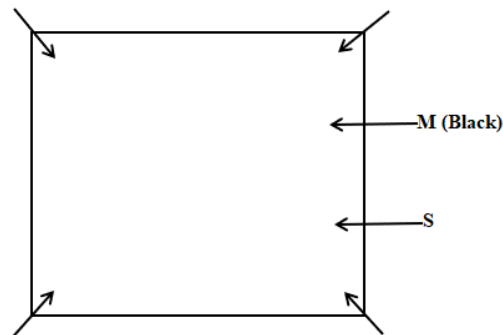
1) C

2) A

3) E

4) B

5) E

Solutions (1-5):

STEP I: M sits to the immediate neighbour of S and likes Black. Both of them sit on the same side of the table.
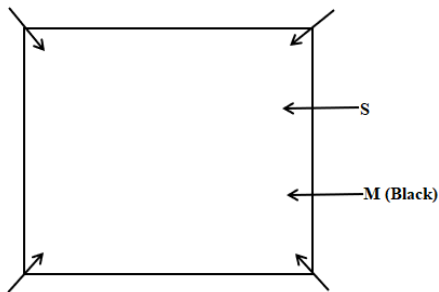
As per these statements, there will be two possible cases and the arrangement will look like this:
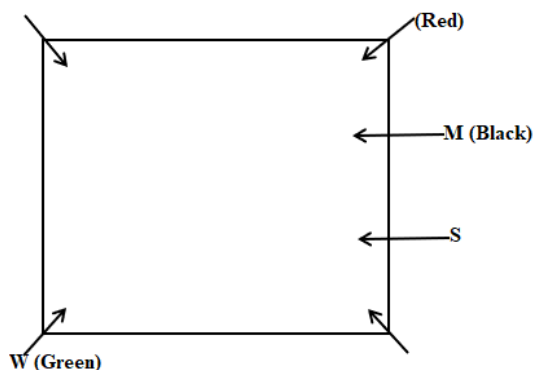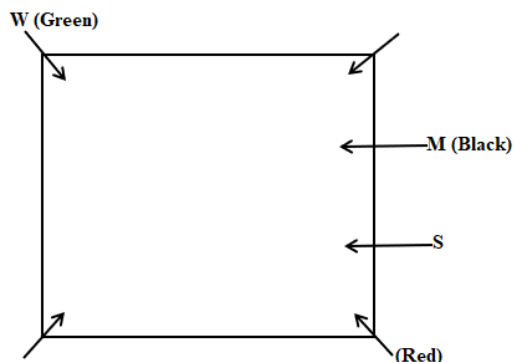
CASE I:

CASE II:

STEP II: W who likes Green sits diagonally opposite to the person who likes Red. W is neither an immediate neighbour of M nor S.

As per these statements, **CASE I and CASE II** will get split into one more case each and the arrangement will look like this:

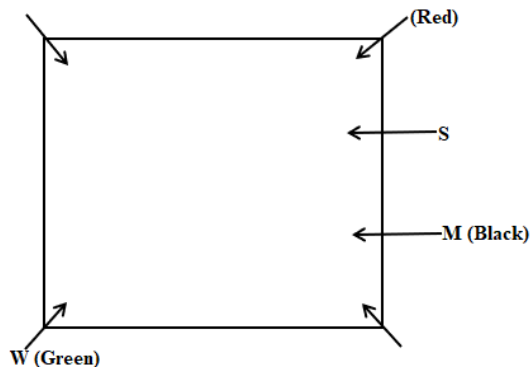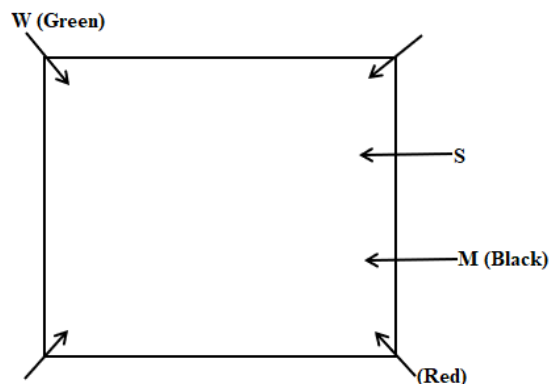**CASE I:**

CASE I (A):
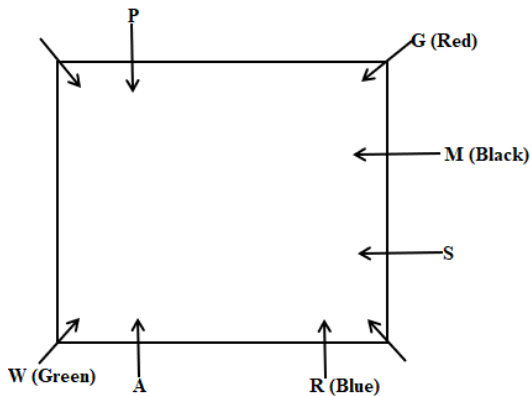

CASE II:

CASE II (A):

STEP III: G sits second to the right of S. Three persons sit between G and R who likes Blue. P faces A who sits to the immediate left of R but does not sit at the corner of the table.
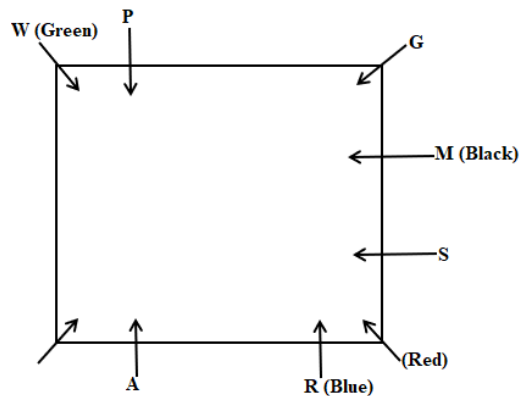
As per these statements, **CASE II and CASE II (A)** will get eliminated and we will continue with **CASE I and CASE I (A)** and the arrangement will look like this:
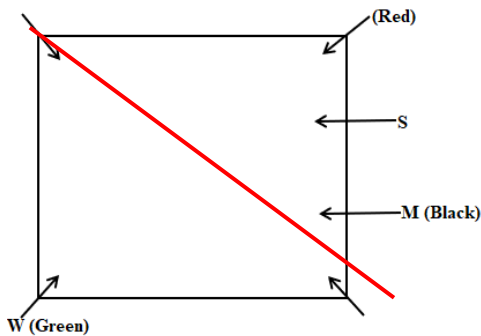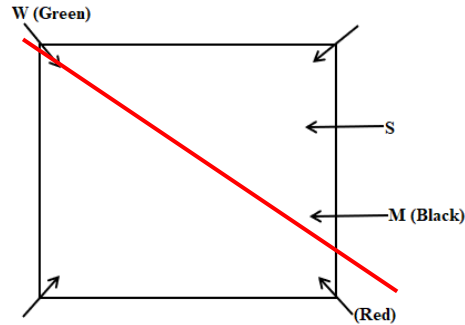
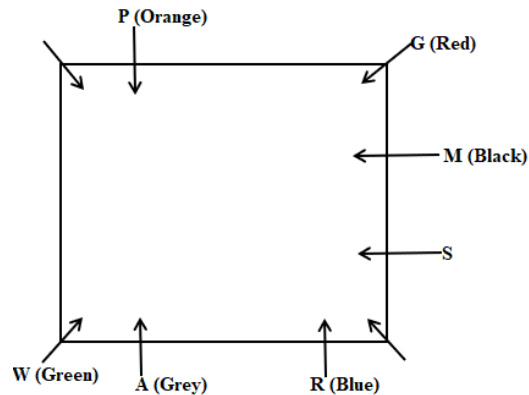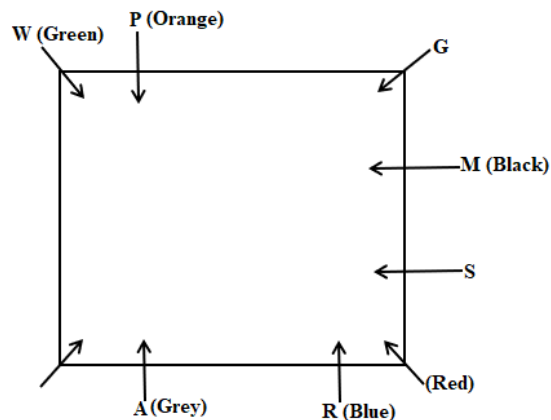**CASE I:**

CASE I (A):

CASE II:

CASE II (A):

STEP IV: Person who likes Orange faces the person who likes Grey. P neither likes Grey nor Red.

As per this statement, the arrangement will look like this:
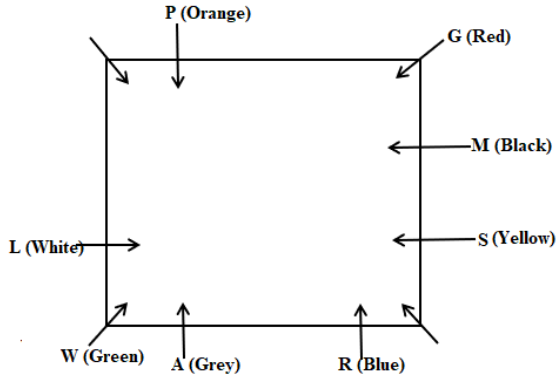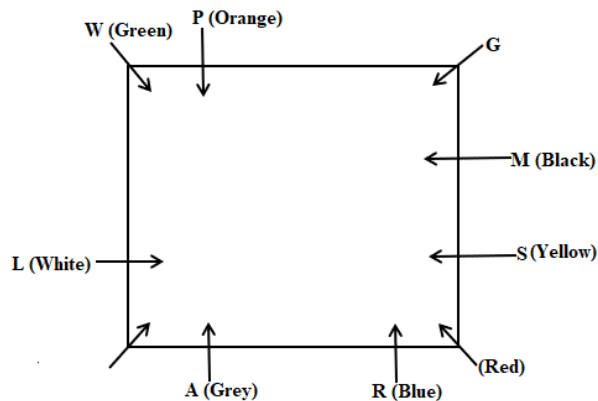
CASE I:

CASE I (A):

STEP V: L who likes White faces the person who likes Yellow but they do not sit at the corner of the table.

As per this statement, the arrangement will look like this:

CASE I:

CASE I (A):

STEP VI: Two persons sit between the person whom likes White and the person who likes Orange. Less than three persons sit between the person, who likes Orange and the person who likes Red but at least one person will sit between these two persons.

As per these statements, **CASE I (A)** will get eliminated and the final arrangement will look like this:
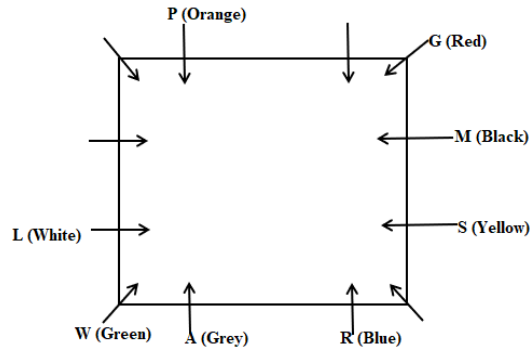
CASE I:

CASE I (A):
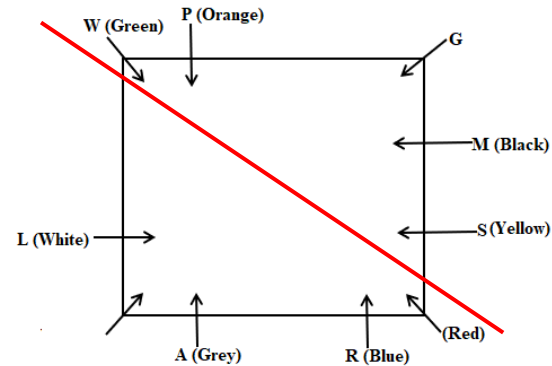
Answers (6-10):

6) B

7) E

8) A

9) D

10) E

Solutions (6-10):

STEP I: E who sits at the corner of the table faces the person whose age is 50. K whose age is 40 sits third to the right of the person whose age is 50.

As per this statement, the arrangement will look like this:

STEP II: Person whose age is 29 faces K. Only one person sits between D whose age is 30 and K but not on the same side of side of the table.

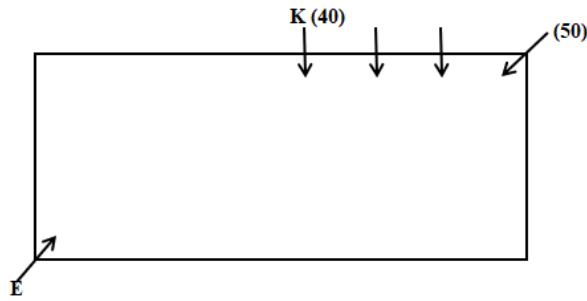As per this statement, the arrangement will look like this:
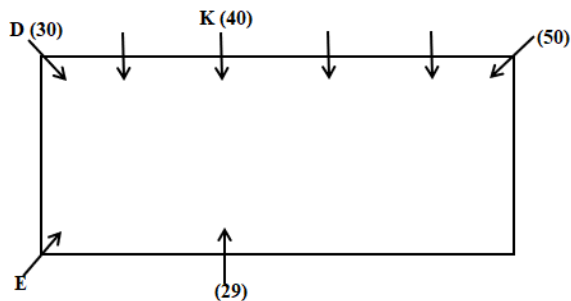
STEP III: T whose age is 32 sits to the immediate left of G who sits at the corner of the table. No one sits between D and B.

As per these statements, there will be three more possible cases and the arrangement will look like this:
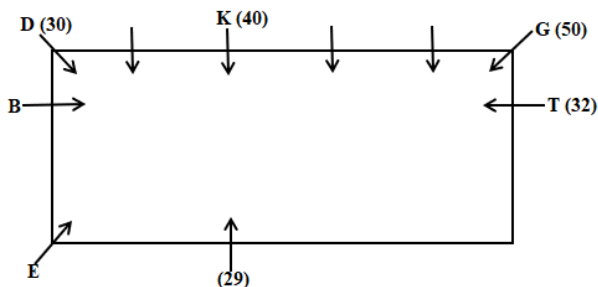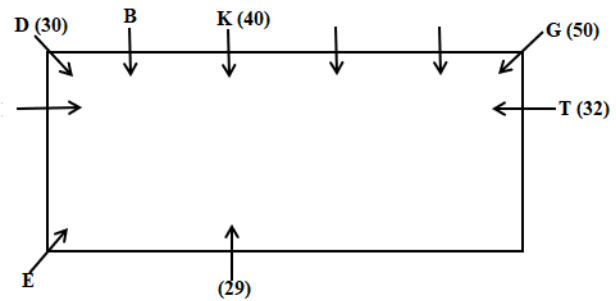
CASE I:
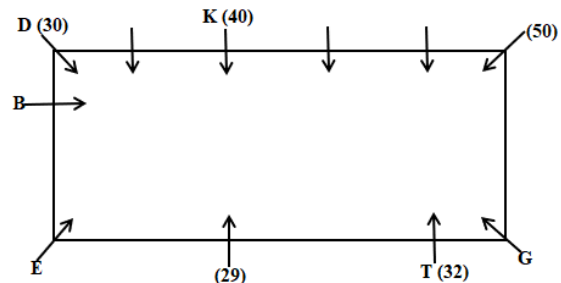
CASE II:
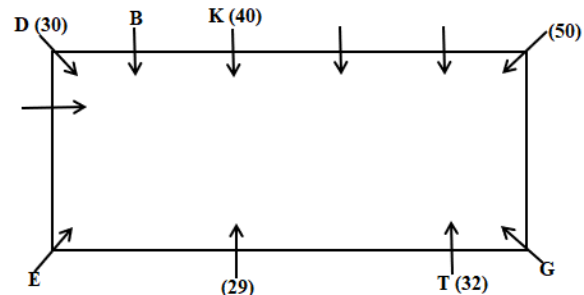
CASE III:

CASE IV:

STEP IV: X whose age is a prime number sits second to the left of L on the same side of the table and second to the right of E.

As per this statement, **CASE III and CASE IV** will get eliminated and we will continue with **CASE I and CASE II** and the arrangement will look like this:
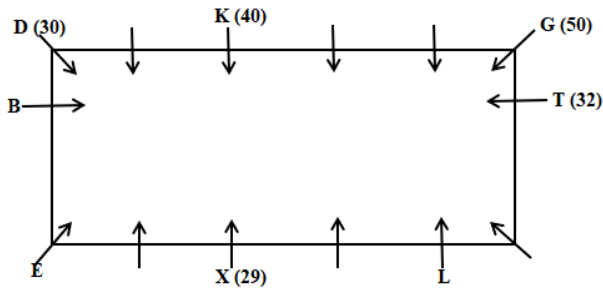
CASE I:
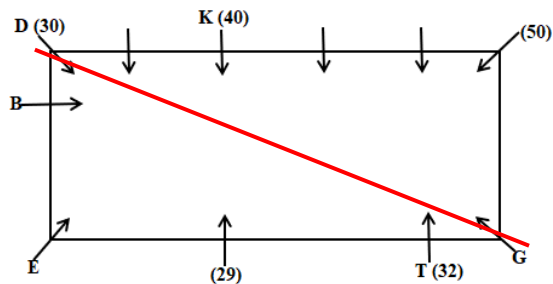
CASE II:
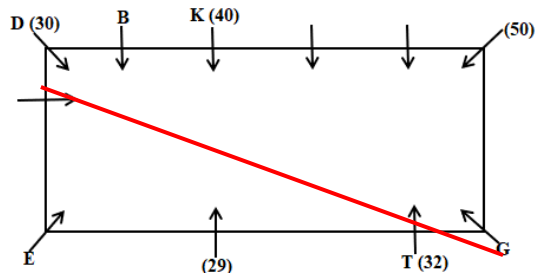
CASE III:

CASE IV:

STEP V: Only one person sits between L and V whose age is 25 and does not faces S.

As per this statement, the arrangement will look like this:
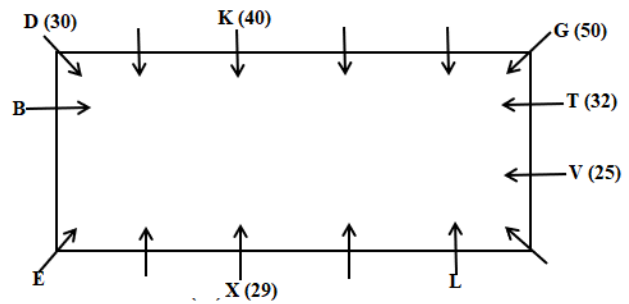
CASE I:

CASE II:

CASE II:
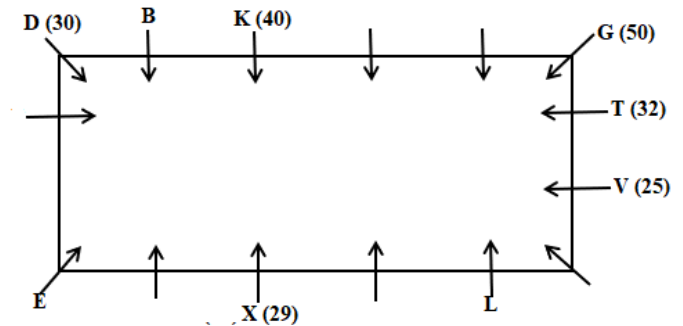
STEP VI: Person whose age is 8 and the person whose age is 36 are immediate neighbours of each other's. Neither E nor L are of 8years. Person whose age is 15 sits fourth to the right of the person whose age is 36. Less than three person sits between B and X.

As per these statements, **CASE II** will get eliminated and the final arrangement will look like this:
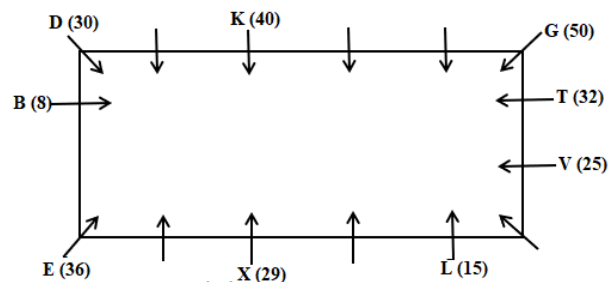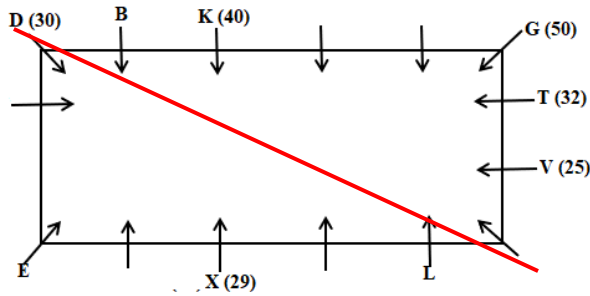
CASE I:

CASE II:

Answers (11-15):

11) E

12) B

13) D

14) C

15) A

Solutions (11-15):

STEP I: F sits at the end of the row and planted a Maple tree. Three persons sit between Q and F.

As per this statement, there will be two possible cases and the arrangement will look like this:

CASE I:

F (Maple)   Q

CASE II:

Q   F (Maple)
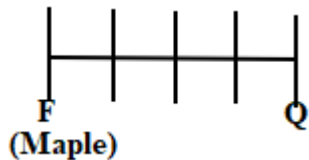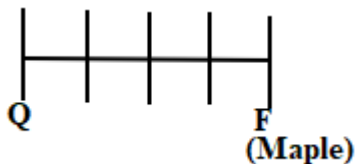
STEP II: Person who planted Mango tree sits third to the right of Q. T sits second to the left of the person who planted Mango tree.

As per these statements, the arrangement will look like this:

CASE I:

F (Maple)   Q   T   (Mango)
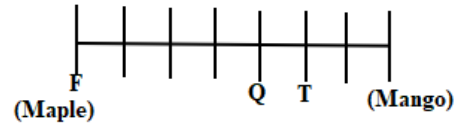
CASE II:

(Mango)
Q   T   F
(Maple)

STEP III: Six person sits between the person who planted Mango tree and Y who planted Peepal tree. L sits second to the left of Y.

As per these statements, the arrangement will look like this:

CASE I:

F (Maple)   Q   T   (Mango)   L   Y (Peepal)

CASE II:

(Mango)
L   Y (Peepal)   Q   T   F (Maple)
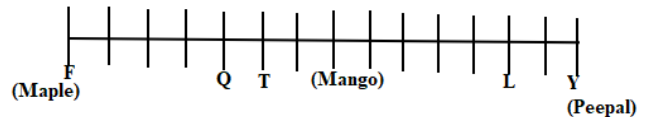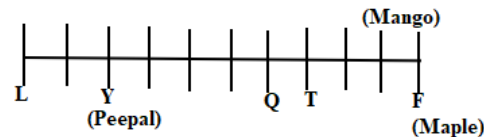
STEP IV: Person who planted Banyan tree sits two places away from the person who is planted Palm tree who sits two places away from the person planted Peepal tree. Q does not plant Banyan tree.

As per these statements, the arrangement will look like this:
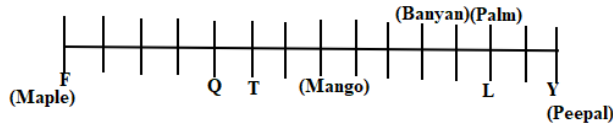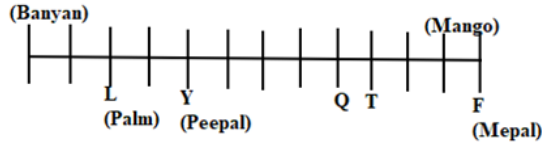
CASE I:

CASE II:

STEP V: G who, planted Oak tree sits to the immediate right of the person who is planted Mango tree. P sits exactly between Q and D who is planted Banyan tree.
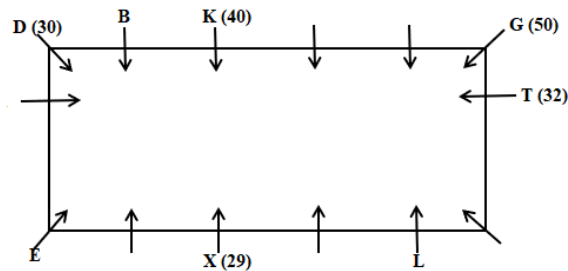
As per these statements, **CASE II** will get eliminated and we will continue with **CASE I** and the arrangement will look like this:
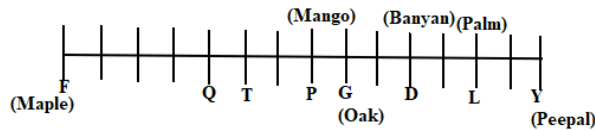
CASE I:

CASE II:
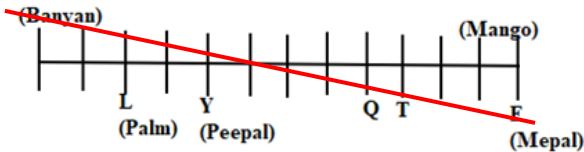
**STEP VI:** Person who planted Pine tree and the person who planted Elm tree are immediate neighbours of each other. Neither T nor S planted Pine tree. S who planted Neem tree sits between D and the person who planted Palm tree. Number of persons sits to the right of Y is one more than the number of persons sits to the left of F.

As per these statements, the final arrangement will look like this:

CASE I:
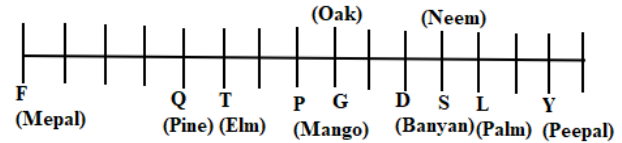
Answers (16-20):

16) D

17) E

18) E

19) E

20) A

Solutions (16-20):

STEP I: Three persons sit between P and Q who likes One plus and they are sitting at point 3 and point 4. R sits to the immediate left of Q.

As per these statements, there will be two possible cases and the arrangement will look like this:
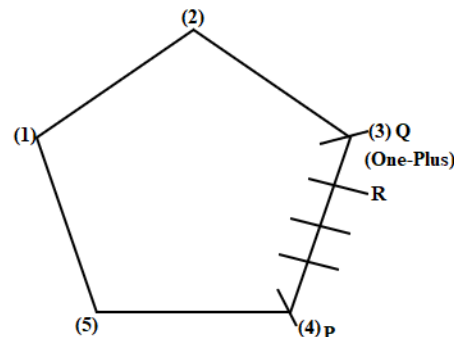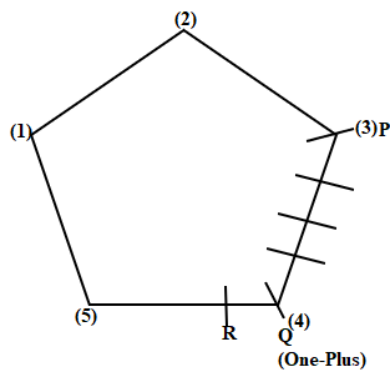
CASE I:

CASE II:

STEP II: G sits third to left of A who likes Realme and who sits sixth to the right of Q. K and A are immediate neighbours but not on the same side.

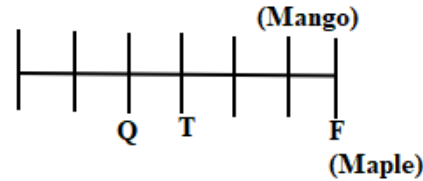As per these statements, the arrangement will look like this:
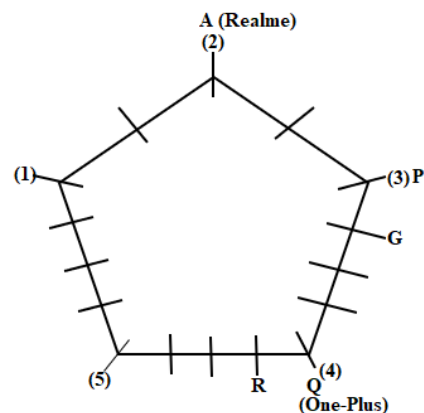
CASE I:

CASE II:

STEP III: W who likes Apple sits third to the right of the person who likes Realme. C who sits third to the right of K likes Vivo but both does not sit at the corner of table. H sits second to the right of C.

As per these statements, **CASE I** will get eliminated and we will continue with **CASE II** and the arrangement will look like this:
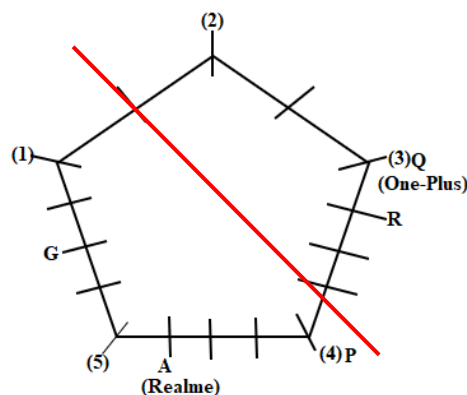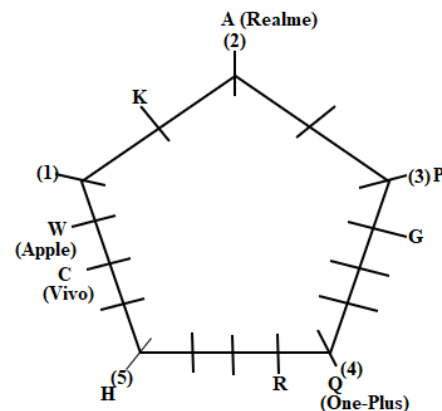
CASE I:

CASE II:

STEP IV: R and H are not sitting on the same side of the table. Two persons sit between H and R who likes Jio.

As per these statements, the arrangement will look like this:

CASE II:

STEP V: Person who likes Poco sits third to the right of the person who likes Nokia. Six persons sit between the person who likes Oppo and the person who likes MI when counted from the left of the person who likes MI.

As per these statements, the final arrangement will look like this:
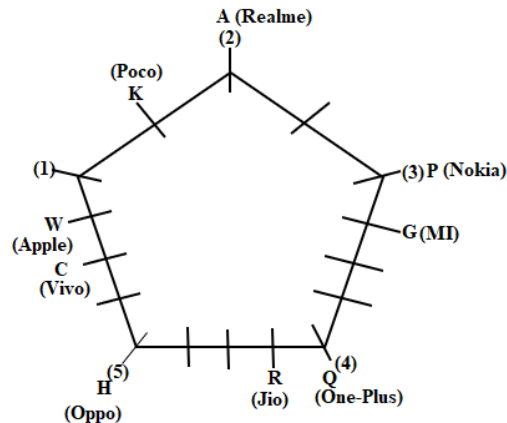
CASE II:

Answers (21-25):

21) **B**

22) **C**

23) **A**

24) **C**

25) **E**

Solutions (21-25):

STEP I: G who likes Kiwi sits at the centre of the table. P and B are an immediate neighbours of G.

As per these statements, there will be two possible cases and the arrangement will look like this:
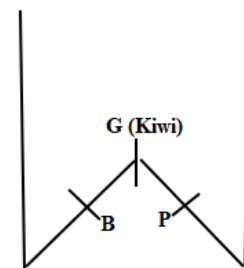
CASE I:

CASE II:

STEP II: Except G no one sits at the vertex of the table. Both P and B are sitting alone on a side of the table. Only one person sits between O and P but not on the same side of the table.

As per these statements, the arrangement will look like this:
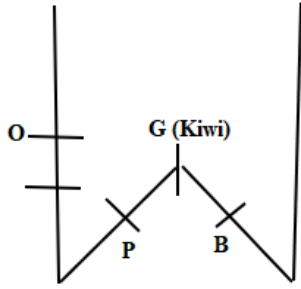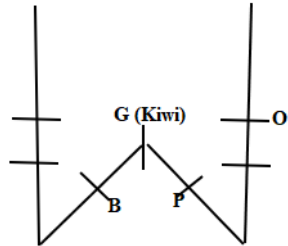
CASE I:

CASE II:

STEP III: Two persons sit between B and M who likes Mango but on different sides of the table. Person, who likes Mango is not an immediate neighbour of the person, who likes Grapes.

As per these statements, **CASE I and CASE II** will further get spilt into one more case each and the arrangement will look like this:
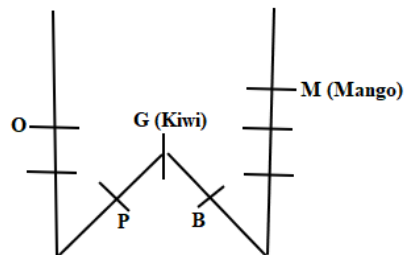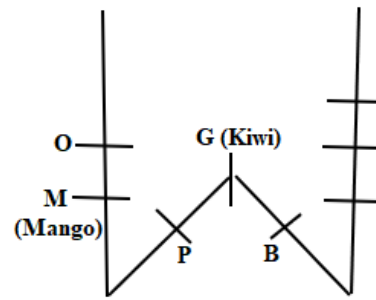
CASE I:
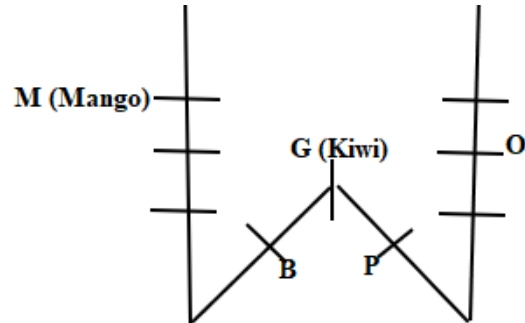
CASE I (A):
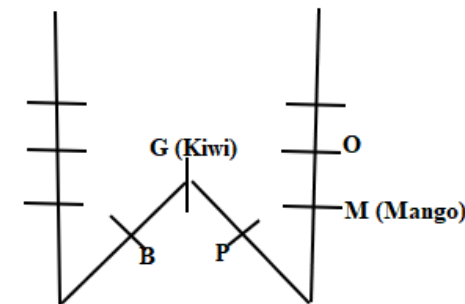
CASE II:

CASE II (A):

STEP IV: H sits second to the left of the person who likes Mango. R who is the neighbour of H sits two places away from the person who likes Apple. Person who likes Papaya faces the person who likes Apple.

As per these statements, **CASE II (A) and CASE I (A)** will get eliminated and we will continue with **CASE I and CASE II** and the arrangement will look like this:
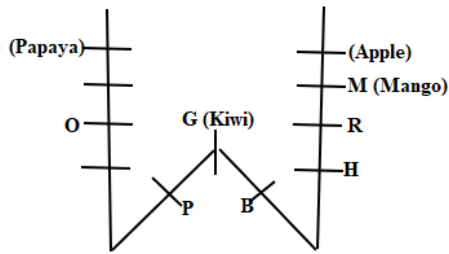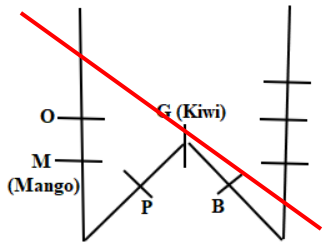
CASE I:
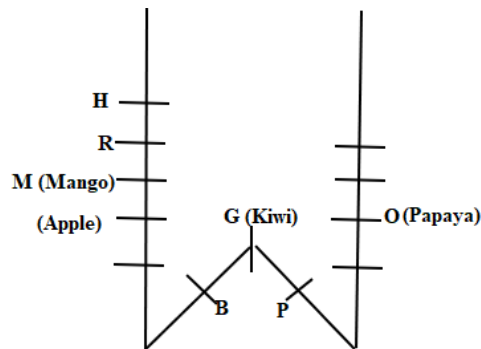
CASE I (A):

CASE II:

CASE II (A):
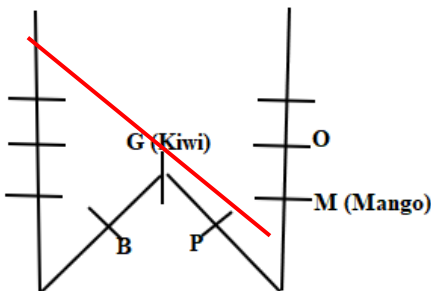
STEP V: Only one person sits between the person who likes Grapes and the person who likes Papaya. L who likes

Malta and the person who likes Litchi are an immediate neighbours of each other.

As per these statements, the arrangement will look like this:
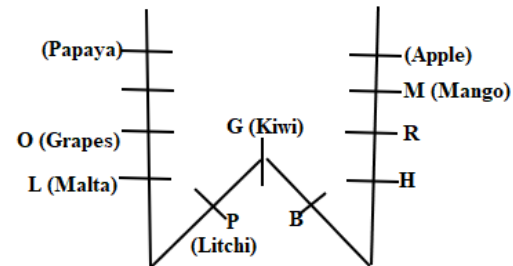
CASE I:

CASE II:
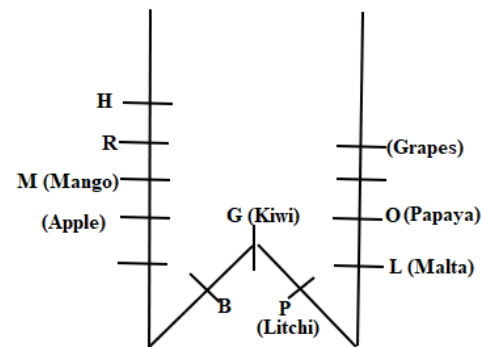
STEP VI: S who likes Dragon Fruit sits three places away from the person who likes Litchi, who sits alone on one of the sides of the table. Person who likes Banana sits to the immediate left of the person who likes Orange but on the different side of the table. R who likes Guava and the person who likes Orange are an immediate neighbours.

As per these statements, **CASE II** will get eliminated and we will continue with **CASE I** and the final arrangement will look like this:
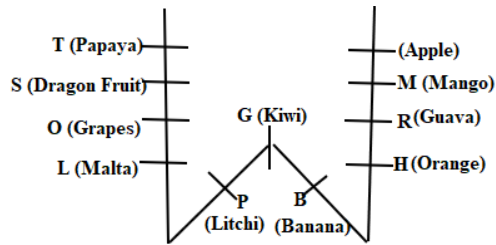
CASE I:

CASE II:
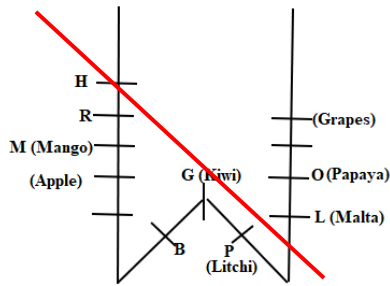
Answers (26-30):

26) B

27) C

28) A

29) E

30) D

Solutions (26-30):

STEP I: A who likes Audi sits at the centre of the table. K sits two places away from A and sits at the corner of the table.

As per these statements, there will be two possible cases and the arrangement will look like this:
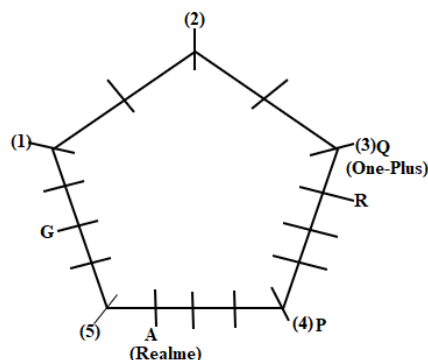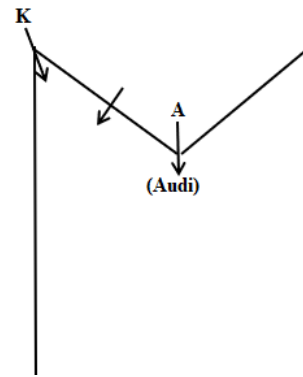
CASE I:

CASE II:
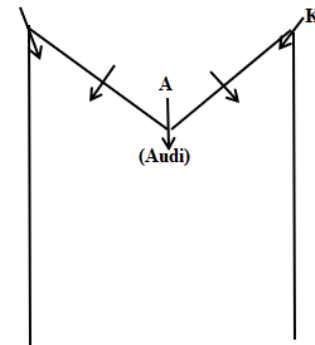
STEP II: Y sits to the immediate left of A and likes Honda. Two persons sit between K and a person who like Jaguar. C sits to the immediate left of the person who likes Jaguar and faces the person who likes Alto.

As per these statements, the arrangement will look like this:
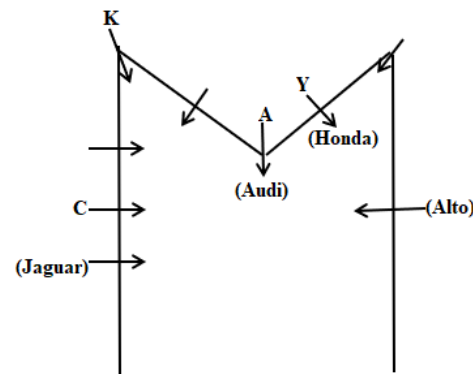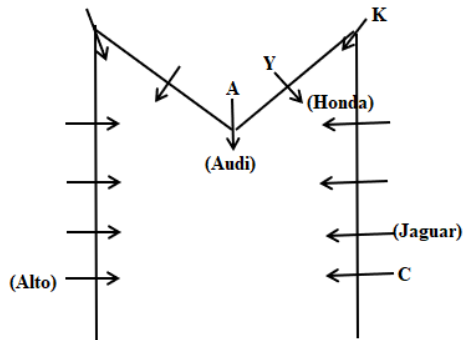
CASE I:

CASE II:

STEP III: Two persons sit between A and E who likes Toyota. E do not sit on that side of the table on which the person who likes Jaguar sits.

As per these statements, the arrangement will look like this:
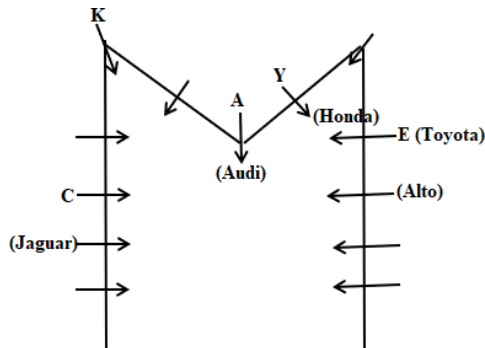
CASE I:

CASE II:
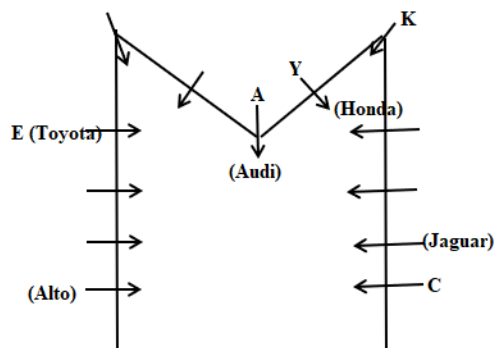
STEP IV: No one sit to the right of E on the same side of the table. I who likes BMW faces the person who sits to the immediate right of the person who likes Hyundai. Person who likes Hyundai and a person who likes Alto do not sit on the same side of the table.

As per these statements, **CASE II** will get eliminated and we will continue with **CASE I** and the arrangement will look like this:
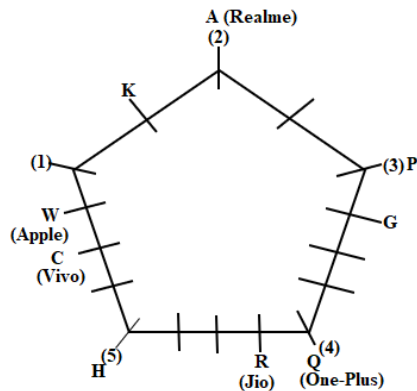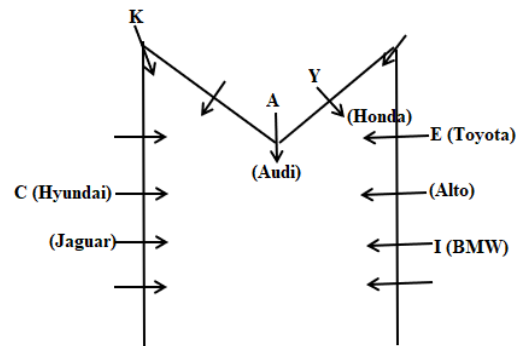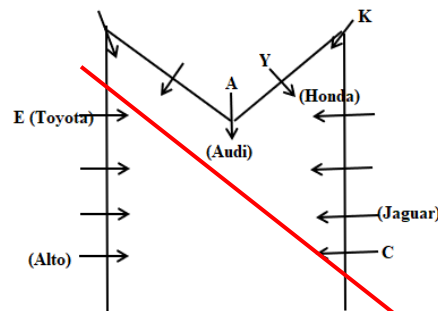
CASE I:

CASE II:

STEP V: D faces the person who sits between the person who likes Alto and S. Either K or S likes Maruti.

As per these statements, the arrangement will look like this:

CASE I:

STEP VI: Person who likes Ertiga does not share the side with the person who likes Toyota.

As per these statements, the final arrangement will look like this:
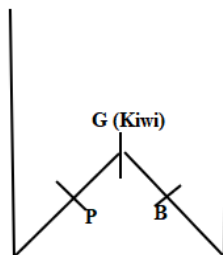
CASE I:
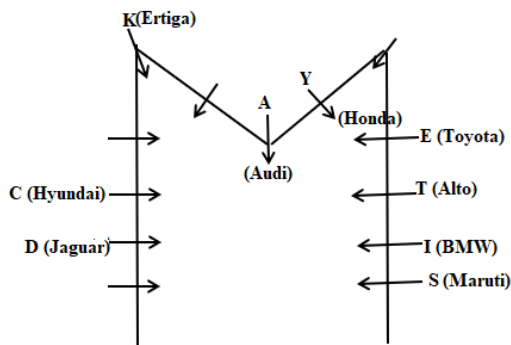
Answers (31-35):

31) B

32) E

33) B

34) C

35) E

Solutions (31-35):

STEP I: S who sits at the right end of the row sits three places away from the person who likes Dangal.

As per this statement, the arrangement will look like this:
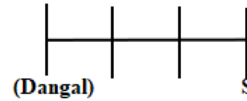
STEP II: T sits to the immediate left of the person who likes Dangal. P who likes Sultan sits exactly between M and T but not immediate. No one sit between the person who likes Avataar and M.

As per these statements, the arrangement will look like this:
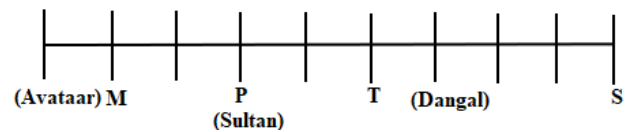
STEP III: Q sits third to the right of the person who likes Sultan. L sits second to the right of N. Two persons sit between L and K who likes Avataar.

As per these statements, the arrangement will look like this:
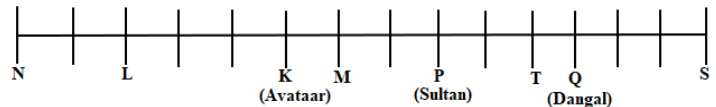
STEP IV: No one sits to the right of the person who likes Lion. Person who likes Joker sits fourth to the left of the person who likes Lion.

As per these statements, the arrangement will look like this:
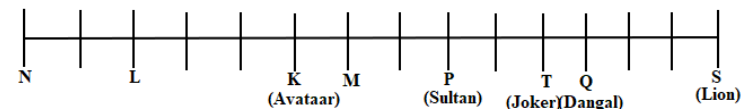
STEP V: Person who likes 1917 sits exactly between the person who likes 1920 and T. M neither likes 1920 nor likes Joker. Number of persons sits to the left of the person

who likes 1920 is one less than the number of persons sits to the right of the person who likes Dangal.

As per these statements, the arrangement will look like this:
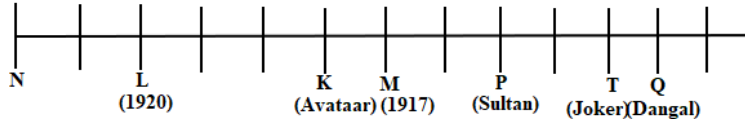
STEP VI: Only one person sits between the person who likes 1920 and the person who likes Swadesh and the one, who likes Swadesh will sit to the left of L.

As per this statement, the final arrangement will look like this:
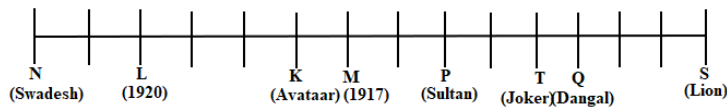
Answers (36-40):

36) D

37) A

38) B

39) D

40) B

Solutions (36-40):

STEP I: H sits fourth to the right of A who was born in June and both are not sitting on the longer side of the table. As per this statement, there will be two possible cases and the arrangement will look like this:
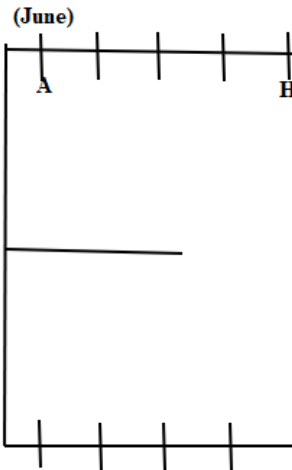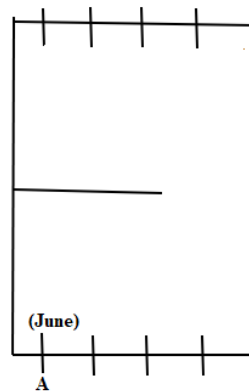
CASE I:

CASE II:

STEP II: D sits at the left end of the lower side of the table. Only one person sits between B and D but not on the same side of the table. B who was born in October sits to the south of F who is not an immediate neighbour of H. As per these statements, **CASE II** will get eliminated and we will continue with **CASE I** and **CASE I** will further split into one more case and the arrangement will look like this:
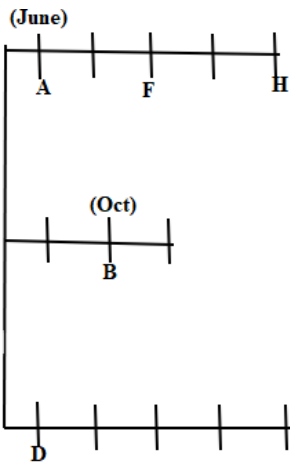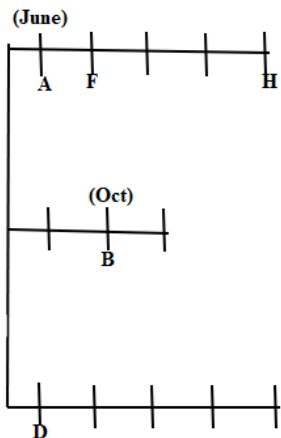
CASE I:
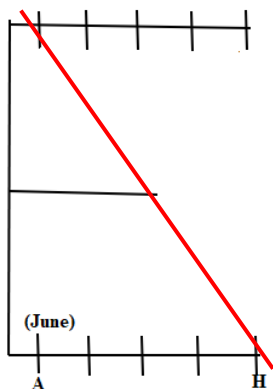
CASE I (A):

CASE II:


STEP III: Three persons sit between D and C who was born in March. B does not share the side with A. E sits to

the east of D and born in May. E sits to the south of F and to the south-east of B.

As per these statements, the arrangement will look like this:
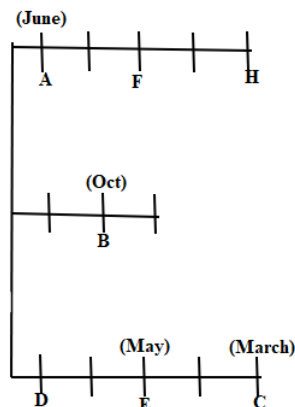
CASE I:

CASE I (A):
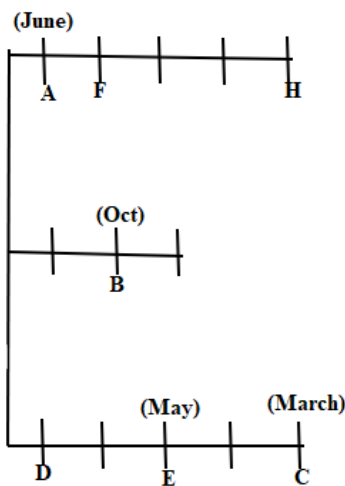
STEP IV: Three persons sit between the person who was born in October and the person who was born in August but on the different sides. Person who was born in August and the person who was born in April are sitting on the upper side of the table.

As per these statements, the arrangement will look like this:

CASE I:

(June) (August) (April)
A F H

(Oct)
B

(May) (March)
D E C

CASE I (A):

(June) (August) (April)
A F H

(Oct)
B

(May) (March)
D E C
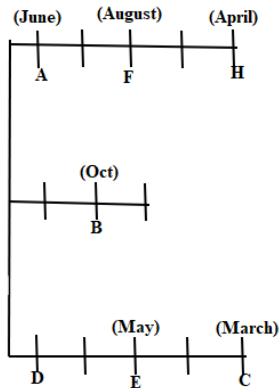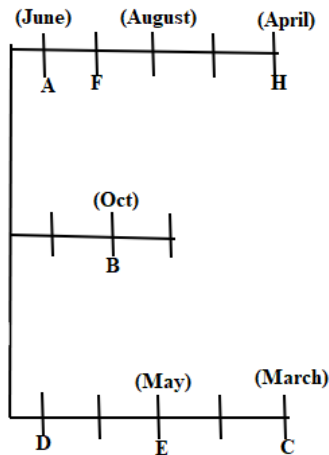
STEP V: G who was born in January sits to the north-east of the person who was born in July who sits neither at the upper side nor at the middle side of the table.

As per this statement, **CASE I (A)** will get eliminated and we will continue with **CASE I** and the final arrangement will look like this:

CASE I:

(June) (August) (April)
A F H

(Oct) (Jan)
B G

(July) (May) (March)
D E C

CASE I (A):

(June) (August) (April)
A F H

(Oct)
B

(May) (March)
D E C
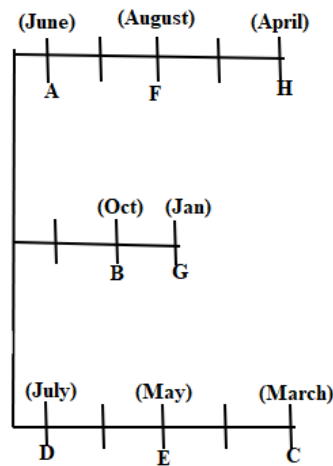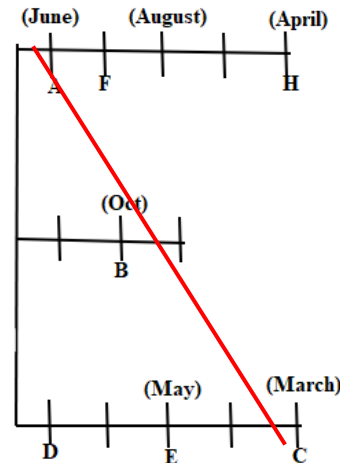
Answers (41-45):

41) C

42) B

43) E

44) D

45) B

Solutions (41-45):

STEP I: R sits second to the left of E and likes Pasta. Only one person sit between the person likes Idli and the person likes Pizza who sits four places away from R.

As per this statement, the arrangement will look like this:
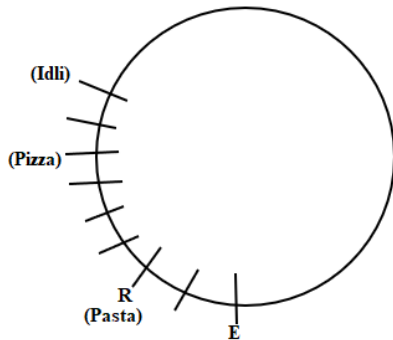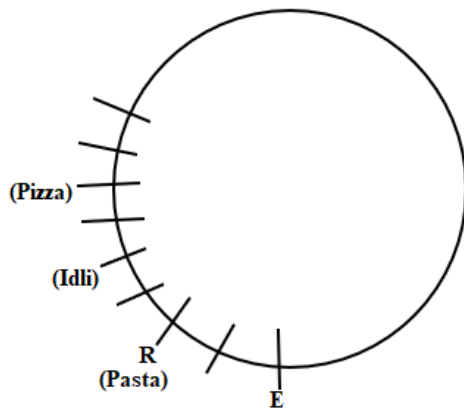
CASE I:

CASE II:

CASE III:
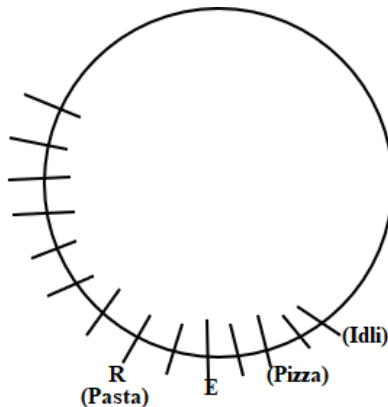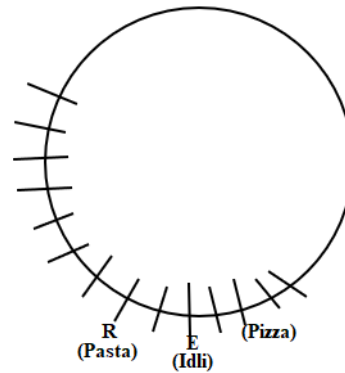
CASE IV:

STEP II: G likes Maggie. L sits second to the left of the person who likes Maggie who sits three places away from the person who likes Idli. L who is not an immediate neighbour of R sits to the left of E who likes Idli.

As per these statements, **CASE I, CASE II and CASE III** will get eliminated and we will continue with **CASE IV** and the arrangement will look like this:
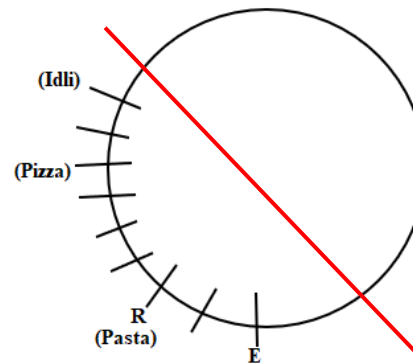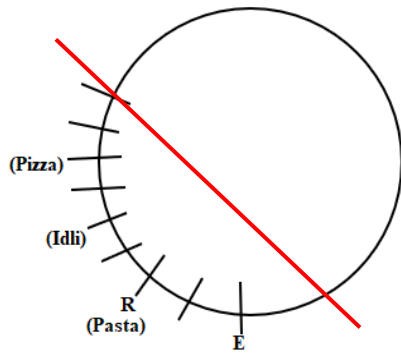
CASE I:

CASE II:

CASE III:
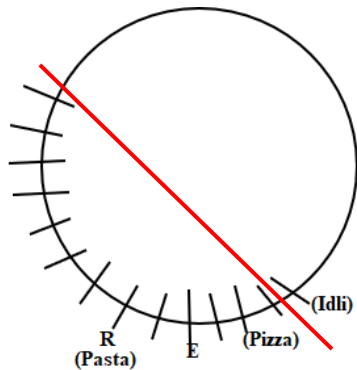
CASE IV:
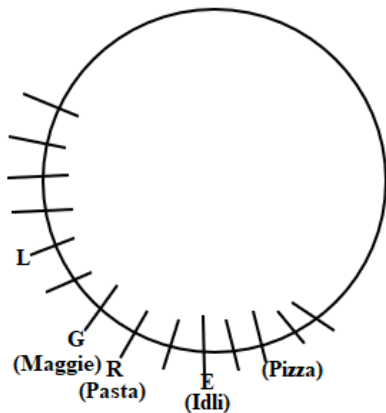
STEP III: Only one person sits between L and the person who likes Dosa. Person who likes Samosa sits second to the left of the person who likes Dosa. Person who likes Samosa is not an immediate neighbour of E.

As per this statement, the arrangement will look like this:
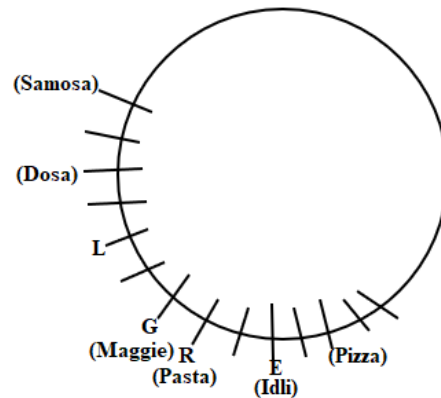
CASE IV:

STEP IV: Seven persons sit between the person who likes Maggie and the person who likes Samosa when counted anticlockwise from the person who likes Maggie.

As per this statement, the arrangement will look like this:

CASE IV:
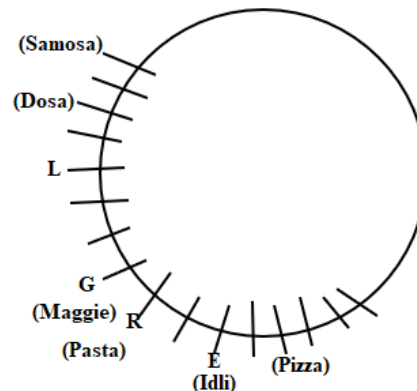
STEP V: Q sits three places away from K. K neither likes Pizza nor likes Dosa. Q sits seventh to the left of L who likes Burger. P sits fifth to the right of Q.

As per these statements, the final arrangement will look like this:

Q (Pizza)

K (Samosa)

P (Dosa)

L (Burger)

G (Maggie)

R
(Pasta)

E
(Idli)
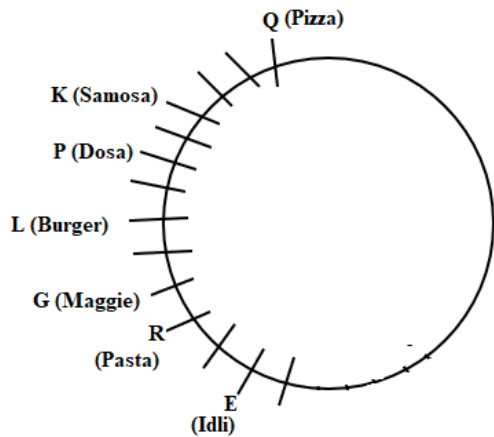
Answers (46-50):

46) E

47) E

48) D

49) C

50) A

Solutions (46-50):

STEP I: P sits to the north of G who works in RBI but not immediate north. Less than four persons but at least one person sits to the north of P.

As per these statements, there are three possible cases and the arrangement will look like this:

CASE I:

P

G ⸺ (RBI)

CASE II:

P

G ⸺ (RBI)

CASE III:

P
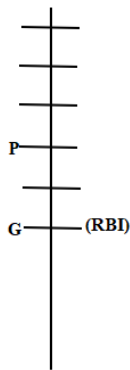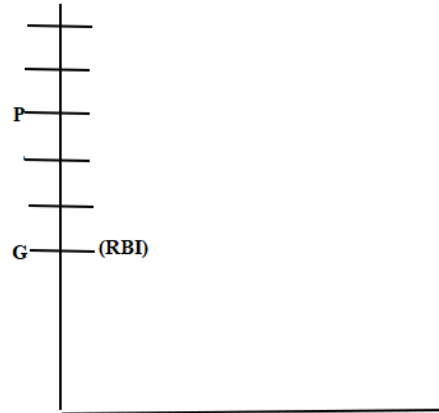
G ⸺ (RBI)
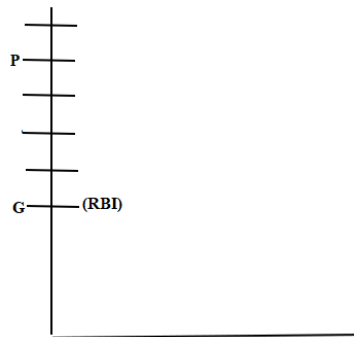
STEP II: Three persons sit between N and T who works in BOI and also sits to the immediate south of P.

As per these statements, the arrangement will look like this:

CASE I:

N

P

T ⸺ (BOI)

G ⸺ (RBI)
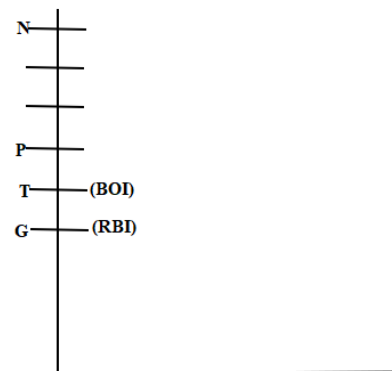
CASE II:
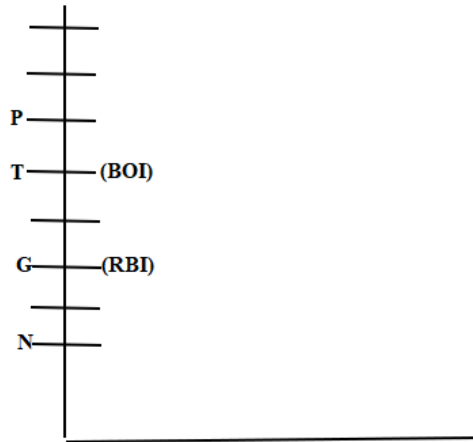
CASE III:
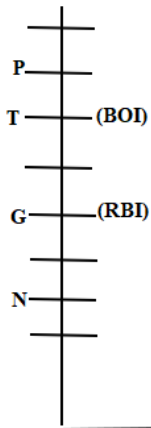
CASE II:

CASE III:

STEP III: H sits at the extreme west of the table. G sits second to the left of H. G and N are not an immediate neighbours of each other.

As per these statements, **CASE II and CASE III** will get eliminated and we will continue with **CASE I** and the arrangement will look like this:
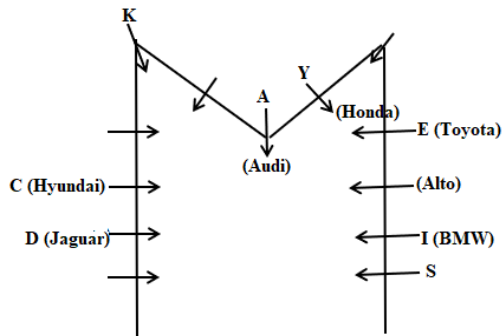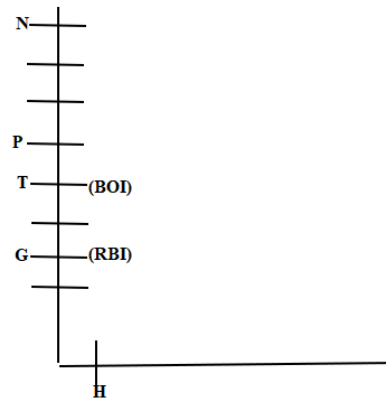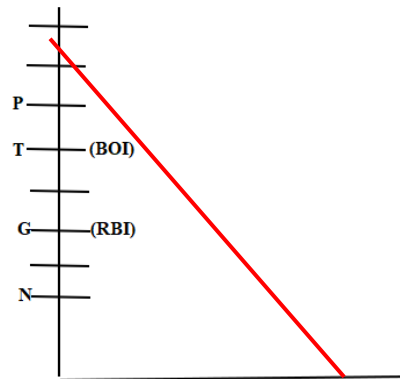
CASE I:
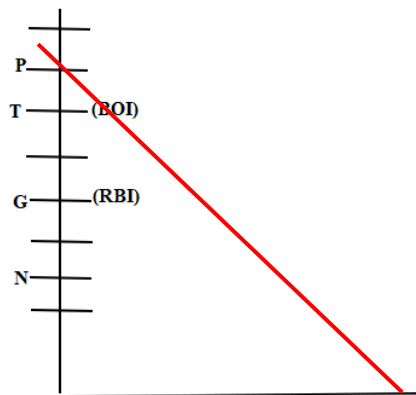
STEP IV: M sits to the west of R but not immediate west. R sits second from the right end of the table. Three persons sit between H and R who works in SBI.

As per these statements, the arrangement will look like this:

CASE I:

STEP V: More than eight persons sit between N and M who sits sixth to the right of the person who works in BOI. Person who works in UCO sits second to the left of the person who works in PNB who sits fourth from the right end.

As per these statements, the arrangement will look like this:
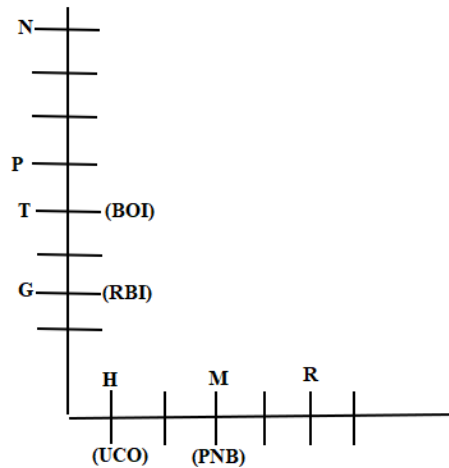
CASE I:

STEP VI: Person who works in UBI sits three places away to the north of the person who works in OBC who also sits three places away to the north of the person who works in RBI.

As per this statement, the final arrangement will look like this:
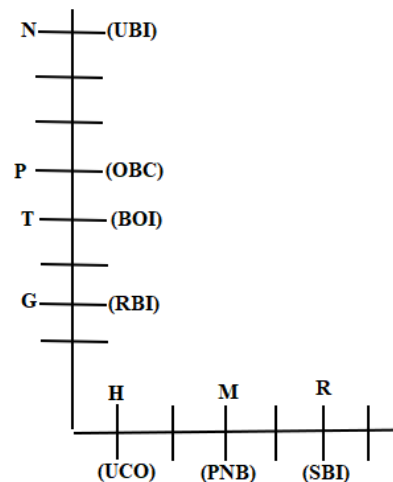
CASE I:

Seating 3 Parallel Row

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

Ten persons T, A, R, H, C, N, V, L, Z and Y are sitting in two parallel rows containing five people each, in such a way that there is an equal distance between adjacent persons. In row 2, Person name starts with second half of the English alphabetical series are seated and some of them are facing north and some of them are south. In row 1, Z and the Person name starts with first half of the English alphabetical series are seated and some of them are facing north and some of them are facing south. The seats were arranged in such a way that the Row-1 is placed behind of the Row-2. The seats of row 1 is south of the seats of row 2 .Each one of them likes different sweets Kulfi, Barfi, Gulab jamun, Laddu, Rasmali, Peda, Rasgulla, Kaju katli, Mysore pak and Kheer. All the above information is not necessarily in the same order.

C sits second to the left of the one who likes Rasmali. The one who sits opposite to C sits immediate left of T. The one who likes Barfi sits immediate left of N. Z and N does not sit opposite to each other. The one who likes Gulab jamun sits opposite to the one who sits second to the left of L. The one who likes Kheer sits opposite to the one who sits immediate left of H. R does not sit at any of the extreme ends. Both the immediate neighbours of R are facing opposite direction. R faces north. The one who sits second to the left of R does not sit opposite to H. H does not sit opposite to V. V likes Mysore pak. The one who likes Laddu sits opposite to the one who sits second to the left of Y. The one who likes Rasgulla and the one who likes Peda are immediate neighbours. A does not like Peda. L does not like Kulfi. C and V face same direction which is opposite to Y. Number of persons sits right of N is same as the number of persons sits right of Z. N does not sit at any of the extreme ends. C and A faces opposite direction. More than two persons sit between the one who likes Rasmali and the person name starts with the vowel.

1) Which of the following person likes Peda?
a) C
b) V
c) Z
d) L
e) None of these

2) How many persons are facing north and south respectively?
a) 3, 7

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b)   6, 4

c)   5, 5

d)   Cannot be determined

e)   None of these

3) Which of the following person sits second to the left of Y?

a)   V

b)   The one who likes Barfi

c)   T

d)   The one who likes Gulab jamun

e)   None of these

4) Four of the following five are like in a certain way and hence they form a group. Which one of the following does not belong to that group?

a)   The one who likes Kulfi

b)   The one who likes Rasgulla

c)   The one who likes Rasmali

d)   The one who likes Barfi

e)   The one who likes Laddu

5) If V is related to Peda, T is related to Laddu, in the same way C is related to which of the following?

a)   Rasmali

b)   Kulfi

c)   Rasgulla

d)   Kheer

e)   None of these

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

There are nine people namely – O, P, Q, R, S, T, U, V and W sitting in a row in such a way that some are facing north while other sits facing south. Each likes different laptop brand viz. LG, Acer, Lenovo, Sony, HP, Apple, Dell, Toshiba and Asus, the distance between each adjacent is different viz. 28, 18, 15, 8, 32, 12, 35 and 13 meter. All the information is not necessary to be in the same order.

Q sits third to the right of W, either of them sits at end of the row. The distance between the one who likes Sony and one who likes Dell is 36m. R, who likes LG, sits third to the right of V and V sits immediate neighbor of Q. Distance between P and Q is 60m. The number of the persons sitting right of Q is one more than the number of the persons sit left of the one who likes Apple. The persons sitting at the end of the row are facing in opposite direction. T who doesn't like Acer sits at a gap of two from the person who likes Asus. The distance between O and U is 31m. At least four persons sit between the one who likes HP and O, who doesn't like Apple. One who likes Acer sits immediate right of W, who sits facing south and W neither likes HP nor likes sony. The distance between T and S is more than 30m. U is neither sits at the end nor likes HP, sits fourth to the right of T, who is facing south. The distance between R and P is 28m. S sits immediate left of the one who likes Dell. The persons sitting adjacent to the one who likes Dell sits facing in the same direction. The

distance between S and W is not the smallest. The One, who likes Asus, sits at a gap of two persons from the one who likes Lenovo. Neither T nor P likes Lenovo.

6.What is the position of the one who likes Dell with respect to U?

a) Third to right

b) Second to left

c) Fourth to right

d) Immediate left

e) Can't be determined.

7.What is the distance between the one who likes Sony and the one who likes Apple?

a) 47 meter

b) 60 meter

c) 41 meter

d) 43 meter

e) Can't be determined.

8.Which of the following statement is true?

a) Only three persons sit between R and the one who likes Dell.

b) One who likes Acer sits fourth to the left of P.

c) R sits immediate neighbor of the one who likes Asus.

d) T sits second to the right of the one who likes Sony.

e) None of the given statement is true.

9.Who among the following sits immediate right of the one who likes LG?

a) One who likes Apple.

b) V

c) One who sits fourth from left end.

d) One who likes Lenovo.

e) Can't be determined.

10.What is the distance between the one who sits second from right end and the one who likes Toshiba?

a) 47 meter

b) 12 meter

c) 28 meter

d) 20 meter

e) 8 meter

Directions (11 – 15): Study the following information and answer the questions below:

There are eight persons i.e. A, B, C, D, E, F, G and H are sitting around two parallel rows such that five of them faces north direction and three of them faces south direction. They all like different colours i.e. Not more than Four persons sit in a row. The seats in one row are exactly faces the seats in other row in equal distance.

F sits second to the right of A. The one who likes pink colour sits on the left of C. F does not sits opposite to the one who likes Pink colour. E sits second to the right of G, who does not like Pink colour. Either F or A sits at the end of the row. C, who likes Black Faces H.ie. both C and H faces each other. F and C faces same direction. C is not the immediate

neighbour of F and does not sits at the end of the row. G sits opposite to the one who likes Brown colour. A does not like brown colour. No one sits on the right of B. B and A face same direction. Two persons sit between the one who likes Blue and the one who likes Red colour. B does not like Blue color and red colour. D does not sits opposite to the one who likes Blue colour and D does not like Red colour. A and E faces opposite direction but E & A do not face each other. G does not like yellow colour. One of the persons who faces north likes Green colour. H and G does not like Green colour and either one of them likes White color.

11.Who among the following likes Red colour?

a) B

b) E

c) A

d) D

e) None of these

12.Who among the following sits second to the left of D?

a) The one who likes Brown colour

b) The one who likes Black colour

c) The one who likes Yellow colour

d) The one who likes white colour

e) None of these

13.H likes which of the following colour?

a) White

b) Blue

c) Pink

d) Yellow

e) None of these

14.Which among the following pair faces opposite direction to each other?

a) H and G

b) D and E

c) A and C

d) B and A

e) None of these

15.Which group of people in the following faces south direction?

a) H,E and G

b) G, E and A

c) A, B and C

d) C, D and F

e) None of these

Directions (16-20): Study the given information carefully and answer the following questions.

Twelve persons are sitting in two parallel rows, Row 1 and Row 2. A, B, C, D, E, and F are sitting in row 1 and facing South direction. X, Y, Z, J, K, and M are sitting in row 2 and facing North direction. Persons in row 1 faces the persons in row 2 in equal distance.They have different ages viz, 15, 20, 25, 28, 30, 36, 39, 49, 50, 63, 64, and 65. The persons whose ages are even numbers are not sit adjacent to each other and the persons whose ages are odd numbers are not sit adjacent to each other.

A is elder than J. K is 63 years old and sits third from one of the extreme ends of the row. F's age is twice that of Y and sits opposite to K. There are two persons sit between F and B who is the youngest person among the group. Y sits opposite to the one whose age is 64 years. C's age is multiple of 5 and D sits immediate left of C. D is not 64 years old. X is 20 years younger than F and sits opposite to C. The ages of A and J are square numbers below 50. M sits somewhere to the left of Y. A sits second to the left of the one who is opposite to M. The number of persons sits right of E is one less than that of the number of persons sits left of the one whose age is 36. The one whose age is 65 sits immediate right of the one whose age is 20 years old. Y is not the eldest person. Z is elder than J. Y is younger than M.

16. **What will be the age of Z?**

a)   25

b)   49

c)   36

d)   39

e)   None of those given as options

17. **How many people younger than Y?**

a)   One

b)   Two

c)   Three

d)   More than three

e)   Y is the youngest person

18. **Who sits second to the left of the one who sits opposite to J?**

a)   The one who is the eldest person

b)   The one who is 49 years old

c)   The one who is youngest person

d)   None of those given as option

e)   D

19. **Four of the five among the following are similar in such a way to form a group, which one of the following doesn't belongs to the group?**

a)   15

b)   28

c)   39

d)   50

e)   20

20. **What is the sum of the ages of M, E and Z?**

a)   121

b)   131

c)   148

d)   139

e)   None of those given as options

(Directions 21–25): Study the following information carefully and answer the questions given below it.

Fourteen persons are sitting in two parallel lines facing each other on sixteen chairs eight in each row in such a way that A, B, C, D, E, F, and G are sitting in row 2 facing south and P, Q, R, S, T, U, and V are

sitting in row 1 facing north. each row contains one Vacant chair .

R and S sit adjacent to each other. Vacant places are not opposite to each other. B sits third to the right of G, who is facing the one who sits immediate left of V. Only one person sits between E and B. Either of B or V sits at the end of the row. A sits third to the right of C, who faces U. Only three-persons sit between U and P, who sits immediate left of Q. S neither faces B nor faces the one who sits immediate neighbor of G. T sits second to the right of U, who doesn't sit immediate neighbor of S. D sits second to the left of F, who is neither sit at the extreme end nor faces P. Only two persons sits between V and R.C doesn't sit at either end of the row.

21.How many person sits between T and vacant chair in row1?

a)   Two

b)   Four

c)   One

d)   None

e)   Three

22.What is the position of A with respect to D?

a)   Fourth to the left

b)   Sixth to the right

c)   Third to the right

d)   Fifth to the left

e)   Second to the left

23.How many person sits between S and one who faces G?

a)   One

b)   Four

c)   Two

d)   None

e)   Three

24.If E and F interchange their position then, who sits second to right of E?

a)   A

b)   C

c)   G

d)   B

e)   None of these

25.Which of the given statement is not true for G?

a)   C sits second to right of G

b)   Only three persons sit between G and one who sits facing Q

c)   G sits third to the left of the one who sits facing R

d)   G sits facing the one who sits immediate left of V

e)   All the given statements are true

Direction (26 - 30): Answer the questions on the basis of the information given below .

A conference is conducted in a bank headquarters. Seven Managers are sitting in a linear row but some of them are facing south and some of them are facing north. Managers are sitting in a consecutive English

alphabetical order from left to right. Each one of them represents different sectors from one to seven.

The manager who represents sixth sector is sitting second to the right of H. Managers sit at the extreme ends face opposite in the direction(if one is facing south then other is facing north). Manager of fourth sector is towards left of the manager of sixth sector. Either the manager of the third sector or the manager of the fourth sector (none of them is K) sits towards the immediate left of the manager of the sixth sector. Manager represents the second sector sit at a gap of one manager towards the right of the manager represents fifth sector. The fourth sector manager sits second to the right of the manager from the third sector, who faces south. The immediate neighbours of the second sector manager face the same direction. The manager of seventh sector is not next to third sector manager. The manager of seventh sector is to the immediate left of the manager of second sector, who is at a gap of three from the manager of the fourth sector. The manager who is immediate right to the manager of fifth sector is facing north. Neither the second sector manager nor the third sector manager is M. Only one vowel is used in the alphabetical series. L does not sit extreme ends.

26. Which one of the following sector does I represents?

a)   1

b)   3

c)   5

d)   7

e)   6

27. Who among the following person sits between J and L and that person represents which sector?

a)   K , 2

b)   M ,2

c)   I, 4

d)   H, 5

e)   K, 3

28. How many persons are facing north direction?

a)   3

b)   2

c)   4

d)   1

e)   5

29. Which one of the following managers represents the fifth sector?

a)   M

b)   G

c)   H

d)   I

e)   J

30. Who among the following pair is sitting at the extreme ends?

a)   GH

b)   ML

c)   KM

d)   MG

e)   JK

Directions (31-35): Study the following information carefully to answer the given questions.

Eight people A, B, C, D, E, F, G, and H are sitting in a straight line with equal distances between each other, but not necessarily in the same order. Some of them are facing north and some of them are facing south. All have different ages 14, 16, 17, 19, 21, 23, 26, 31, but not in the same order.

A sits at one of the extreme ends. Only three people sit between A and G. E sits exactly between A and G. H sits third to the right of E. B is an immediate neighbour of H and faces south. C sits second to the right of F. C is not an immediate neighbour of G. Immediate neighbours of G face opposite directions (i.e. if one neighbour faces North then the other neighbour faces south and Vice-Versa). A and D face the same direction as E Faces (if E faces north then A and D also face North and Vice-Versa). Both the immediate neighbours of E face south. Three people sit between B and 16 yr old. 23 yr old sits immediate left of B. Three persons sit between 26 yr and C. The difference of the ages of neighbors of C is 15. Neither B nor C is the youngest. B is elder than C. The difference of the ages of neighbors of G is 7. Immediate neighbours of F faces opposite direction.

31. What is the position of C with respect to G?

a)   Second to the right

b)   Second to the left

c)   Third to the right

d)   Third to the left

e)   None of these

32. Who amongst the following person's age is 14?

a)   A

b)   B

c)   Other than those given as options

d)   D

e)   E

33. How many people face south as per the given arrangement?

a)   Two

b)   Four

c)   Three

d)   More than four

e)   One

34. Four of the following five are alike in a certain way based upon their seating arrangement and so form a group. Which of the following does not belongs to the group?

a)   EC

b)   AF

c)   BF

d)   CG

e)   DG

35. Who amongst the following person sits at the extreme end of the row?

a)   21 yr old

b)   C

c)   23 yr old

d)   E

e)   Other than those given as options

Directions (36-40): Study the following information carefully and answer the questions given below

1) P ——————————40m——————— Y

2) W ——————————40m——————— S

3) F ——————34m—————— R

4) L ——————————50m——————————— Q

5) T ——————30m———— P
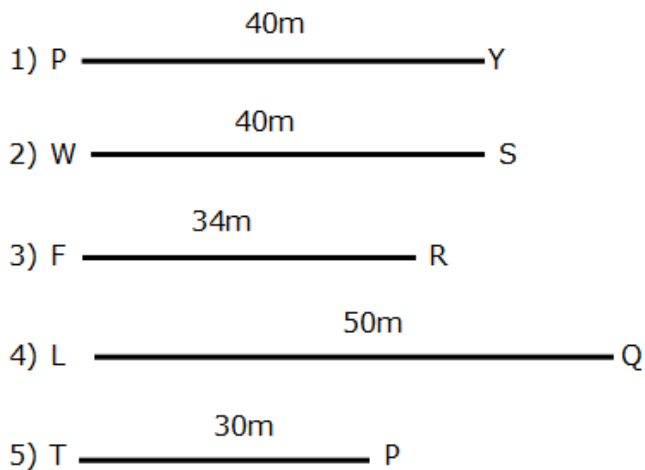
In the given figure the five-line segments 1,2,3,4 and 5 are PY, WS, FR, LQ, and TP respectively. The lengths of the line are 40m, 40m, 34m, 50m, and 30m respectively.

Point W, Point L, and Point T are at the Extreme left end of the line WS, LQ, and TP.

Eight Persons- Reka, Guna, Nancy, Teena, David, Sekar, Rani and James are standing in a line 1-PY. All of them are facing north and the distance between them is increasing in multiples of 5 from the left end (i.e. if the first person is standing at the left end of the line at point P and the remaining will be stand at the distance as follows-5m, 10m,15m…. from point P.

Only four persons are standing between David and Teena. David stands at the left ends of the line. James stands second to the left of Nancy, who is not an immediate neighbor of Teena. Sekar is the immediate neighbor of Rani. Only one person is standing between Guna and Rani.

Similarly, Eight persons-Latha, Sony, Sam, Peter, Anu, Ram, Ragu and Renu are standing in a line-3 FR. All of them are facing south (then point F is considered as right end and point R is left end) and the distance between them are increasing in multiples of 4 from the right end of the line (i.e. if the first person is standing at the right end of the line at point F and the remaining will be standing at the distance as follows-4m, 8m,12m…. from point F).

Only three persons stand between Anu and Sony. Latha and Sony are not immediate neighbours. Sony stands at extreme left end of the line. Four persons stand between Sam and Ragu. Two persons stand between Latha and Anu. Renu stands second to the right of Ragu. Ram stands third to the left of Peter.

36.In the line1- PY, what is the distance between James and Rani?

a)   20m

b)   25m

c)   15m

d)   10m

e)   None of these

37.In the line 1-PY, if all the people stand in multiples of 8m in the same order and the rest of them moves to line 4 - LQ and stands in multiples of 5 from the left end in the same order , then What is the distance between Sekar and point Q?

a) 10m

b) 20m

c) 30m

d) 45m

e) None of these

38.If the line-3 FR is joined to line 5-TP to form a new straight-line FP in such a way that distance between point R and T is 4m. Point T is to the right of point R. If the people in line-3 FR are made to stand in multiples of 7 to the newly formed line FP, then how far is Anu from point P?

a) 40m

b) 54m

c) 47m

d) 63m

e) None of these

39.If all the people in line 1-PY are made to stand in line 2-WS in multiples of 3, then What is the distance between Guna and point S?

a) 30m

b) 24m

c) 28m

d) 23m

e) None of these

40. In line PY, Rani and James are related to each other in such a way, Reka and Teena related. Following the same way in line FR which pair is related to each other?

a) Latha and Ragu

b) Sam and Sony

c) Peter and Ram

d) Anu and Ragu

e) Latha and Renu

Directions (41 -45): Study the following information carefully and answer the given Questions below.

Ten people are sitting in two parallel rows. Ram, Ravi, Rohit, Ranjit and Rakesh are sitting in row 1 facing South. Sandeep, Shukul, Sameer, Sarvesh and Sanjay are sitting in row 2 facing north. The person sitting in row 1 exactly faces the person sitting in row 2. They like five different cars, Benz, BMW, Audi, Toyotto and Swift. Exactly two people like the same Car and the persons who like the same Car don't sit in the same row.

Shukul sits at one of the extreme ends. There is only one person sits between Shukul and the one who faces the person who like Benz Car. Ranjit sits to the immediate right of the person who like Benz Car. There is only one person sits between Shukul and Sameer. Sameer likes Benz Car. Number of persons who sits to the right of Sameer is same as that of number of persons who sits to the left of Rohit. The

person who likes Toyotto Car sits immediate left of Sameer. Two people sit between Sanjay and Sandeep. Sanjay sits somewhere to the left of Sandeep. Sanjay faces the one who like Toyotto Car. One of the people who likes SwiftCar is an immediate neighbour of the one who like Audi Car in row 2. Rakesh sits left of Ram. Rakesh is an immediate neighbour of Ravi. Ravi faces the person who sits to the immediate right of the person who like Swift Car. Sarvesh and Ravi doesn't like Swift Car. There is only one person sits between Ranjit and the one who like BMW Car.

41.Who among the following like BMW Car?

a) Ranjit

b) The one who faces Benz Car

c) The one who sits immediate left of Sarvesh

d) Sameer

e) None of these

42.In a certain way, Ranjit is related to Sameer, Sandeep is related to Rohit, in the same way Sarvesh is related to who among them following person?

a) The one who sits immediate left of Rakesh

b) Ranjit

c) The one who like BMW Car

d) The one who sits immediate right of Ranjit

e) None of these

43.Four of the five among the following are similar in such a way to form a group, which one of them doesn't belongs to the group?

a) Rohit

b) Ranjit

c) Sandeep

d) Ravi

e) Sameer

44.Which of the following statement is/are correct?

i) Rakesh and Sanjay like same Car

ii) Sameer sits second to the right of Shukul

iii) Rohit is an immediate neighbour of Rakesh and Ravi

a) Only (ii)

b) Only (i)

c) Only (i) and (ii)

d) Only (ii) and (iii)

e) None of the statement is correct

45.What is the position of Sanjay with respect to the one who like Swift Car?

a) Third to the left

b) Second to the right

c) Third to the right

d) Immediate left

e) None of these

Directions (46 – 50): Read the information given below and answer the questions that follow.

There are 14 people from A to N as in alphabetical series were sitting in 2 rows, 7 in each. There are equal number of boys and girls. Boys are sitting in one row and girls in other. Boys face south and girls

face north. The person sitting in row 1 exactly faces the person sitting in row 2.They sit based on their ranks of JEE from right to left in each row in increasing order of their ranks (i.e. 1st rank at the right end of the row to 7th rank at the left end of the row).

Note: There are 1-7 ranks in the row facing north and 1-7 ranks in the row facing south.

Four couples are sitting opposite to each other; AB, EF, IJ and MN. A secured 1st among boys and M came last among boys. E and I came 3rd and 5th among boys while 2nd and 6th was secured by L and D among girls. C sits next to A and H sits next to J. K came last but one.

46. Who secured 3rd rank among girls?

a) F

b) H

c) I

d) J

e) None of these

47. Who sits second to the right of the one who sits opposite to H?

a) E

b) C

c) I

d) L

e) None of these

48.Who is sitting right of J and is also opposite to H?

a) E

b) C

c) I

d) L

e) None

49. Which of the following pair of persons are opposite to each other?

a) EH

b) CK

c) AM

d) GH

e) None of these

50. Who sits second to the right of F?

a) B

b) H

c) L

d) J

e) N

Seating 3 Parallel Row – Answer and Explanation

ANSWER AND EXPLANATION:

Direction (1-5):

1. Answer: c

2.Answer: b

3.Answer: b

4.Answer: e

5.Answer: d

V- Mysore pak ↓	T- Gulab jamun ↓	R - Barfi ↑	N- Kheer ↑	Y- Kulfi ↑
A- Rasgulla ↑	Z- Peda ↓	C- Laddu ↓	L- Kaju katli ↑	H - Rasmali ↑

Explanation:

In row 1, Person name starts with first half of the English alphabetical series are seated. A, H, C, L and Z are seated.

In row 2, Person name starts with second half of the English alphabetical series are seated. T, R, N, V and Y are seated.

C sits second to the left of the one who likes Rasmali. More than two persons sit between the one who likes Rasmali and the person name starts with the vowel. Only one person name starts with a vowel ie. A. There are two cases.

Case 1:

The one who sits opposite to C sits immediate left of T.

The one who likes Barfi sits immediate left of N. Number of persons sits right of N is same as the number of persons sits right of Z. N does not sit at any

of the extreme end. Z and N does not sit opposite to each other.

It is not possible to place N in third place in row 2, because Number of persons sits right of N is same as the number of persons sits right of Z.

N can be placed only in one place. But N can either faces north or south.

The one who sits opposite to the one who likes Gulab jamun sits second to the left of L.

Case 1(a):

The one who likes Kheer sits opposite to the one who sits immediate left of H. R does not sit at any of the extreme end. Both the immediate neighbours of R are facing opposite direction. R faces north. The one who sits second to the left of R does not sit opposite to H.

Case 1(b):

The one who likes Kheer sits opposite to the one who sits immediate left of H.

Case 2:

The one who sits opposite to C sits immediate left of T.

The one who likes Barfi sits immediate left of N. Number of persons sit right of N is same as the number of persons sits right of Z. N does not sit at any

of the extreme end. Z and N does not sit opposite to each other.

It is not possible to place N in third place in row 2, because Number of persons sits right of N is same as the number of persons sits right of Z.

N can be placed only in one place. But N can either faces north or south.

The one who likes Gulab jamun sits opposite to the one who sits second to the left of L.

Case 2(a):

The one who likes Kheer sits opposite to the one who sits immediate left of H.

Case 2(b):

Case 2(b): I A ✗

This case will be dropped because the one who sits opposite to the one who likes Gulab jamun sits second to the left of L.

Case 2(b): II A

Case 2(b): I B

Case 2(b): II B

The one who likes Kheer sits opposite to the one who sits immediate left of H.

Case 2(b): I B

Case 2(b): II B ✗

This case will be dropped because The one who likes Kheer sits opposite to the one who sits immediate left of H.

Case 2(b): II A

R does not sit at any of the extreme end. Both the immediate neighbour of R are facing opposite direction.

Case 2(b): I B

Case 2(b): II A ✗

This case will be dropped because both the immediate neighbour of R are facing opposite direction

R faces north. The one who sits second to the left of R does not sit opposite to H. H does not sit opposite to V. V likes Mysore pak. The one who likes Laddu sits opposite to the one who sits second to the left of Y. The one who likes Rasgulla and the one who likes Peda are immediate neighbours. A does not like Peda. L does not like Kulfi. C and V face same direction which is opposite to Y. C and A faces opposite direction.

Case 2b i) B

V- Mysore pak	T- Gulab jamun	R - Barfi	N- Kheer	Y- Kulfi
A- Rasgulla	Z- Peda	C- Laddu	L- Kaju katli	H - Rasmali

Directions (6-10):

6. Answer: c

7. Answer: a

8. Answer: e

9. Answer: e

10. Answer: b

O	R	U	P	V	Q	T	S	W
	18m	13m	15m	32m	28m	8m	35m	12m
Lenovo	LG	Apple	Asus	Sony	HP	Dell	Acer	Toshiba
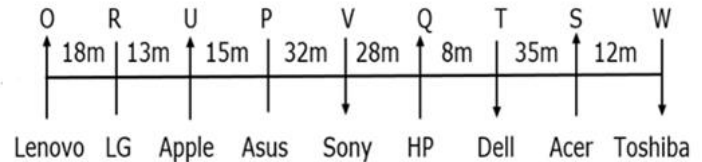
Explanation:

We have:

- Q sits third to the right of W, either of them sits at end of the row and the one who likes Acer sits immediate right of W, who sits facing south that means we have two possibilities, in case (1) Q sits at left end and in case (2) W sits at extreme right end.

- R, who likes LG sits third to right of V and V sits immediate neighbor of Q, that means in case (1) V sits facing north, in case (2a) V sits fourth to the right of W and sits facing south, in case (2b) V sits second to right of W and sits facing south.

Based on above given information, we get:
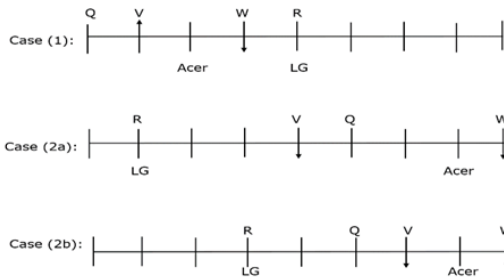
Again, we have:

- T who doesn't like Acer sits at a gap of two from the person who likes Asus and U, who neither sits at end nor he likes HP, sits fourth to right of T, who sits facing south, that means in case (1) U likes Acer and T sits facing south and third from right end, in case (2a) T sits third from right end facing south and case (2b) is not valid as U can't be placed at end of the row.

- One who likes Asus sits at a gap of two persons from the one who likes Lenovo, neither T nor P likes Lenovo, that means in case (1) Q likes Lenovo and in case (2a) one who likes Lenovo sits at left end.

Based on above given information, we get:
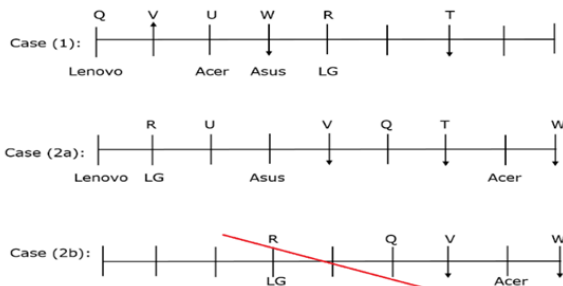
Incase 2b, **T** who doesn't like **Acer** sits at a gap of two from the person who likes **Asus** and **U,** who neither sits at end nor he likes **HP**, sits fourth to right

of **T**, who sits facing **south, this condition is not satisfied** so **rejected.**

Again, we have:

- Distance between P and Q is 60m and distance between R and P is 28m, that means we have only two possible conditions for distance to be 28m either no one sits between PR and distance is 28m or only one person sits between PR and distance must be sum of 15m and 13m, thus in case (1) P sits immediate right of T and distance between P and R is 28m, in case (2a) as P not likes Lenovo thus, P likes Asus and distance between PR is sum of 15m and 13m.

- Number of person sitting right of Q is one more than number of person left of the one who likes Apple, that means in case (1) Q sits facing north and the one who likes Apple sits second from right end facing north, in case (2a) Q sits facing north and U likes Apple sits facing north and in case (2c) Q sits facing north and T likes Apple sits facing south.
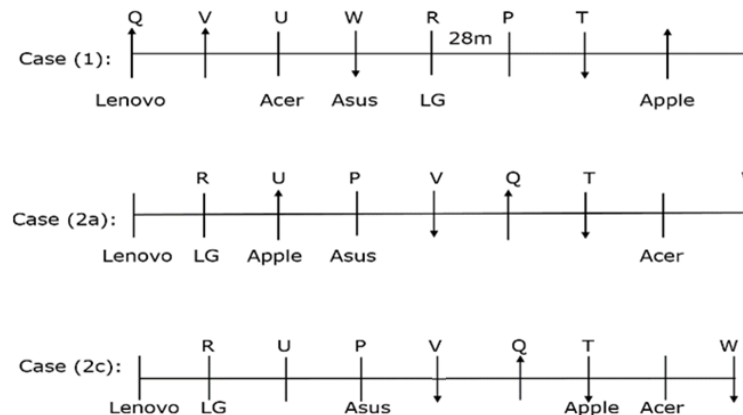
Based on above given information, we have:

Again, we have:

- At least four persons sit between the one who likes HP and O, who doesn't like Apple, that means in case (1) O sits at right end and V likes HP, Distance between O and U is 31m, that means case (1) is not valid. in case (2a) O likes Lenovo and Q likes HP,since S sits immediate left of the one who likes Dell,the only option to fix S is immediate left of T, hence T likes dell, in case (2c) O likes Lenovo and Q likes HP since W neither likes HP nor likes sony.. As distance between PR is sum of (13 and 15m) and distance between OU is sum of (18m and 13m), thus distance between RU must be 13m and distance between OR and UP are respectively 18m and 15m in both cases 2a and 2c.

- Person sitting at the end of row are facing in opposite direction, which means O must sits facing north. S sits immediate left of the one who likes Dell ,that means in case (2a) T likes Dell and case (2c) is not valid.

- In case 2a ,Person sitting adjacent to one who likes Dell sits facing in same direction, which means S sits facing north. The distance between the one who likes Sony and one who likes Dell is 36m. W neither likes HP nor likes sony.hence V likes Sony and W likes Toshiba. Based on above given information, we have:
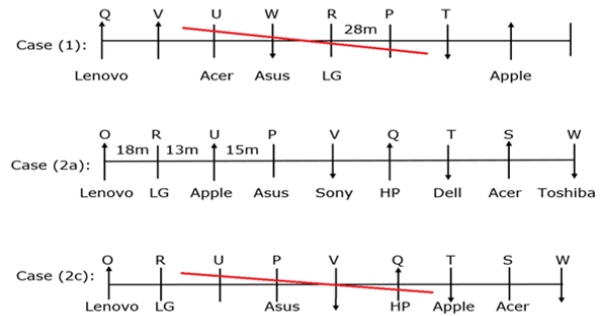
Incase 1, At least **four persons** sits between the one who likes **HP** and **O**, who doesn't like **Apple,** Distance between **O** and **U** is **31**m, **this condition** is **not satisfied** so **rejected.**

Incase 2c, **S** sits immediate left of one who likes **Dell,** this **condition** is **not satisfied** so **rejected.**

Again, we have:

- Distance between P and Q is 60m, as only one person sits between P and Q, thus only possible combination is sum of (28 & 32m). Distance between S and W is not smallest, that means distance between SW is not 8 and distance between one who likes Sony and one who likes Dell is 36m, as distance between VQ is either 32m or 28m, that means only possible combination for 36m is (28, 8), thus distance between VQ and QT are 28m and 8m respectively.

- Distance between T and S is more than 30m, which means distance between TS must be 35m.

Based on above given information we get final arrangements as follow:
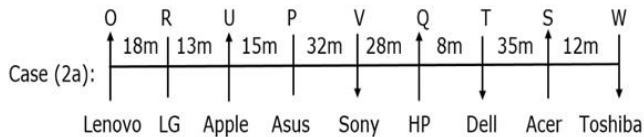
Directions (11 – 15):

11. Answer: c

12. Answer: c

13. Answer: d

14. Answer: b

15. Answer: a

Explanation:

1) F sits second to the right of A. Either F or A sits at the end of the row.

2) C, who likes Black Faces H ie. both C and H faces each other.

3) F and C faces same direction. C is not the immediate neighbour of F and does not sits at the end of the row.

4) The one who likes pink colour sits on the left of C. F does not sits opposite to the one who likes Pink colour.
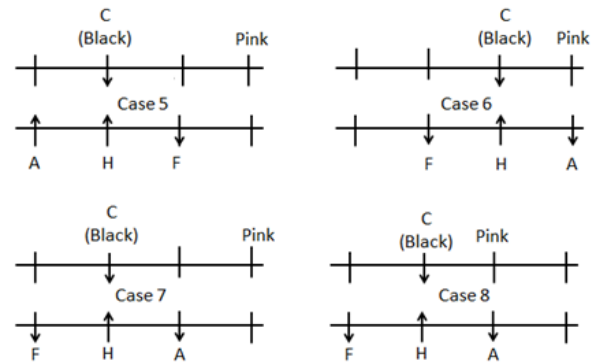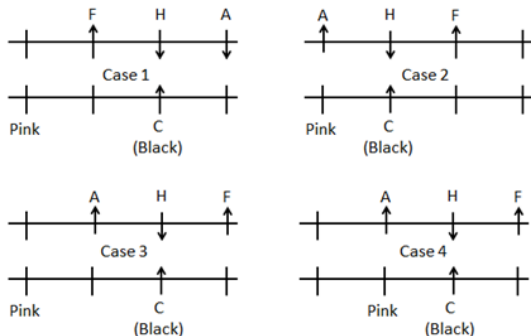
5) E sits second to the right of G, who does not like Pink colour. G sits opposite to the one who likes Brown colour. A does not like brown colour.
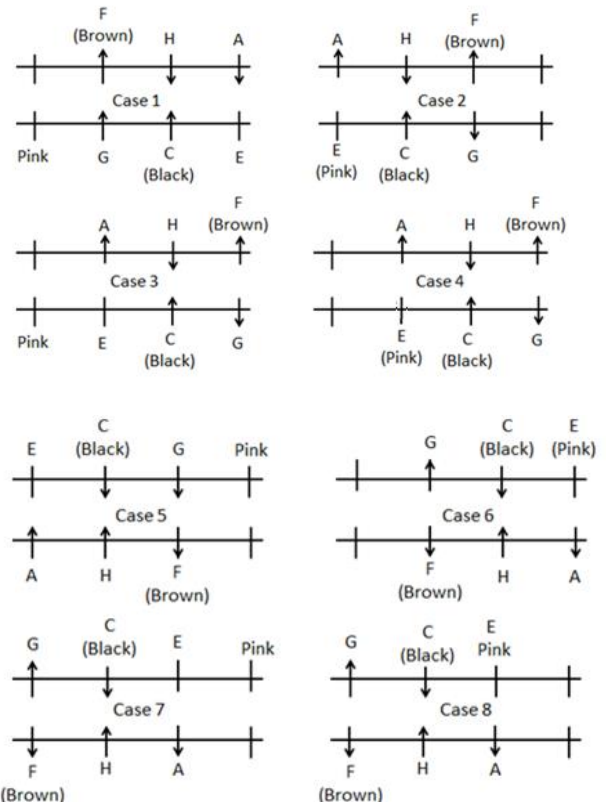
6) No one sits on the right of B. B and A face same direction.

7) Two person sits between the one who likes Blue and Red colour.

8) B does not like Blue color and red colour. So, case 3, case 4, case-7 and case-8 are eliminated.

9) D does not sits opposite to the one who likes Blue colour and D does not likes Red colour.

As only three persons faces south direction so case-6 also get eliminated.
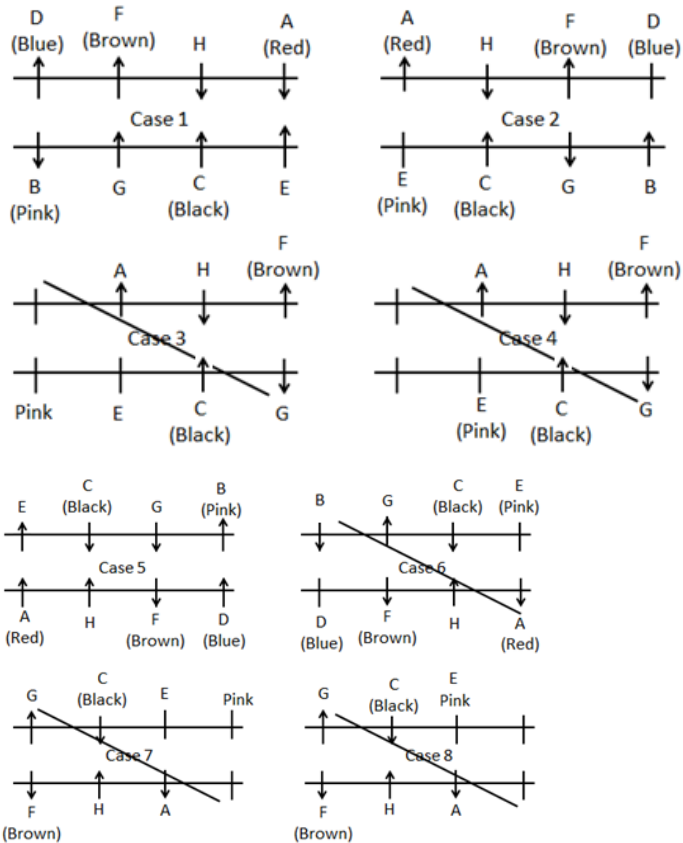
10) A and E faces opposite direction but E does not face A.

So case 1 , case-5 are eliminated.

11) G does not like yellow colour. One of the person who faces north likes Green colour. One of the person like White color.
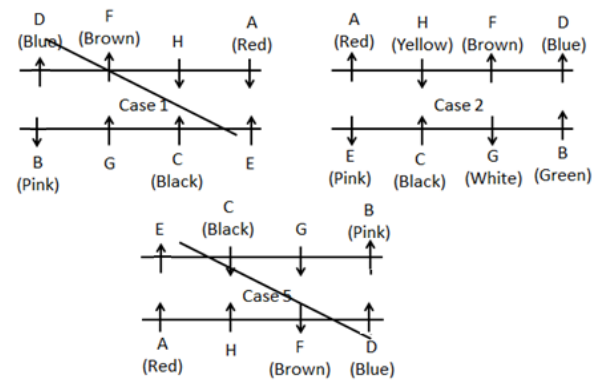
So the final arrangement is:
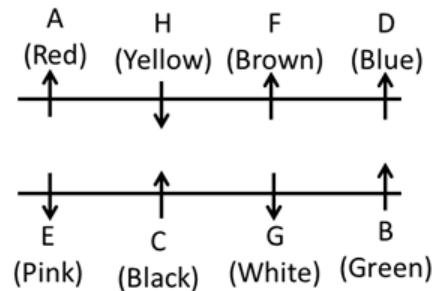
Directions (16-20):

16. Answer: d

17. Answer: b

18. Answer: a

19. Answer: d

20. Answer: b

Explanation:

• K is 63 years old and sits third from one of the extreme ends of the row.

- F's age is twice that of Y and sits opposite to K.we got two possibilities for F and Y's age combination . i.e (F,Y=50,25) and (F,Y= 30,15) respectively.

- There are two persons sit between F and B who is the youngest person among the group.since B is the youngest person , B age is 15, then F and Y's age must be the combination (50,25)respectively.

- Y sits opposite to the one whose age is 64 years.

- The persons whose ages are even numbers are not sit adjacent to each other and the persons whose ages are odd numbers are not sit adjacent to each other. By considering all the conditions above, we got 4 possibilities,
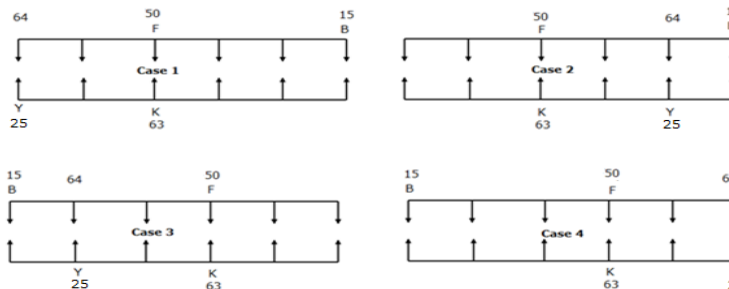
- C's age is multiple of 5 i.e. (20/30/65 years in remaining numbers)and D sits immediate left of C.

- D is not 64 years old.hence to satisfy the condition The persons whose ages are even numbers are not sit adjacent to each other and the persons whose ages are odd numbers are not sit adjacent to each other, in case 1 and case 3, C must be 65 years old and in case 2and case 4 C's age must be either 20 or 30 years.
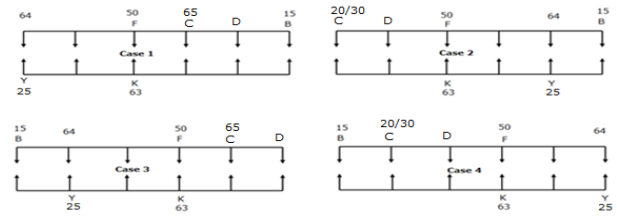
- M sits somewhere to the left of Y. From this statement case 1 is eliminated.

- X is 20 year younger than F and sits opposite to C. Form that X's age is 30years since F's age is 50.hence in case 2 and case 4 ,C's age is 20 years .A sits second to the left of the one who sits opposite to M. **In case 2 and case 4** The persons whose ages are even numbers are not sit adjacent to each other and the persons whose ages are odd numbers are not sit adjacent to each other.these conditions are not satisfied hence case 2 and case 4 are eliminated.
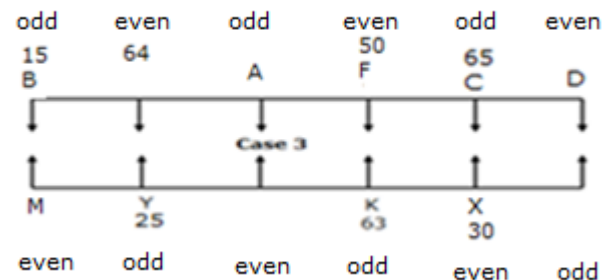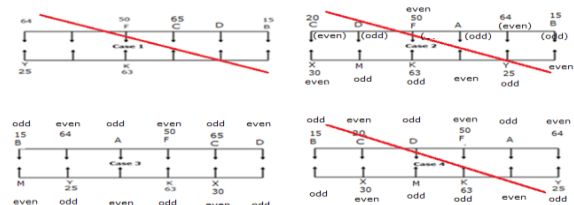
- The number of person sits right of E is one less than that of number of person sits left of the one whose age is 36.E should be sits second from the right

end in row 1.So we can fix the position of the one whose age is 36 at immediate right of Y.

- The ages of A and J are square numbers below 50.So it should be either 25 or 36 or 49.Y 's age is 25 years. Hence A and J's age must be either 36 or 49.

- A is elder than J.

- From the above two statements J should be 36 years old and A should be 49 years old.

- The one whose age is 65 sits immediate right of the one whose age is 20 years old. From this statement D is 20 years old.

- Z elder than J. So Z Should be 39 years old

- Y is younger than M. since Y's age is 25 years , M should be 28 years old.

Based on the above conditions, the final arrangement can be done as,

Case 3
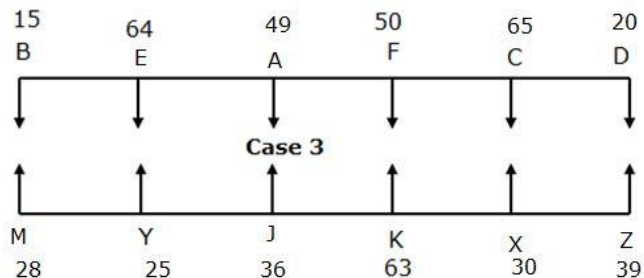
Direction(21-25):
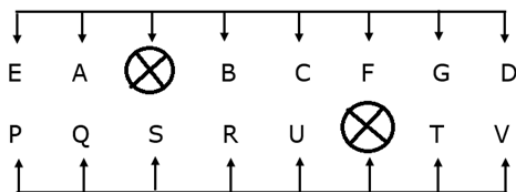
21. Answer: d

22. Answer: b

23. Answer: c

24. Answer: d

25. Answer: e

Explanation:

We have:

- B sits third to the right of G, who sits facing the one who sits immediate left of V and either of B or V sits at end of the row, which means we have two possibilities for B and V. In case (1) B sits at extreme right end of row 2 and in case (2) V sits at extreme right end of row 1.

- A sits third to the right of C, who sits facing U and Only three person sits between U and P, who sits immediate left of Q and C doesn't sit at either end of the row, that means in case (1) A must sit immediate right of G and in case (2) we have two different possibility of A thus, in case (2a) A sits second to right of B and in case (2b) A sits immediate right of B. We got more possibilities for case (1), case (2a) and case (2b).

Based on above given information we have:
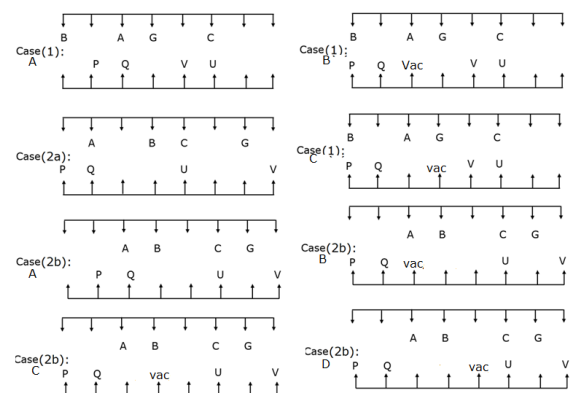
Again, we have:

- Only one person sits between E and B that means case (1)A, case 1B and case 1C are not valid,. D sits second to left of F, who neither sits at end nor sits facing P, by this condition all the cases of 2B are eliminated. in case (2a) E must sits at extreme right end of row 2 and vacant place is immediate left of A .Based on above given information, we have:

Case(1): A

Case(1): B

Case(2a):

Case(1): C

Case(2b): A

Case(2b): B
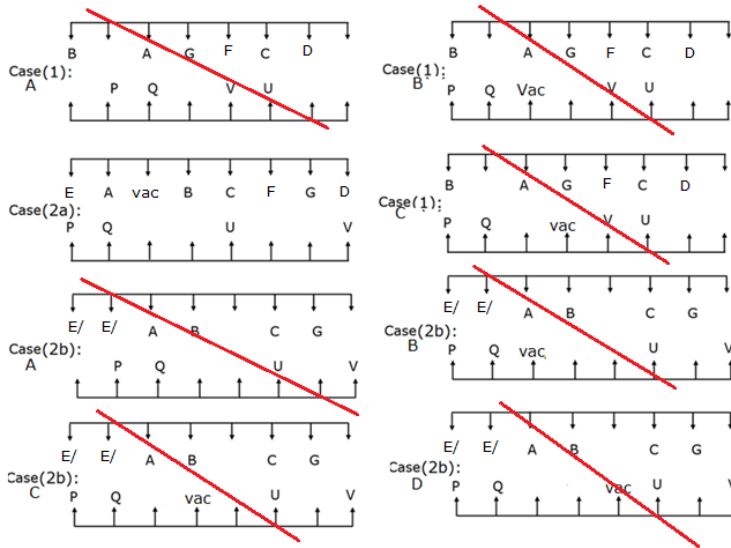
Case(2b): C

Case(2b): D

All possibilities of Case (1) are not valid as no such place available for E to sit at a gap of one from B and all possibilities of case (2b) are not valid as no such place available for D to sits second to left of F.

Again, we have:

- R and S sits adjacent to each other. S neither sits facing B nor sits facing the one who sits immediate neighbor of G, as Vacant place are neither adjacent nor facing to each other and Only two persons sit between V and R, that means R must sits facing B.

- T sits second to the right of U, who doesn't sit immediate neighbor of S, as S sits immediate neighbor of R, that means T sits immediate left of V. Based on above given information, we have final arrangement as follow:

E A ⊗ B C F G D

P Q S R U ⊗ T V

Direction (26 - 30):

G IV ↑ H I ↑ I III ↓ J VI ↑ K II ↓ L VII ↑ M V ↓
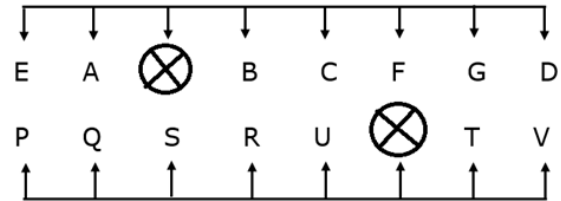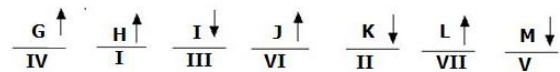
26. Answer: b

27. Answer: a

28. Answer: c

29. Answer: a

30. Answer: d

Explanation:

One who is sitting second to the right of H is in sixth sector.

Either the manager of the third sector or the manager of the fourth sector (none of them is K) sits towards the immediate left of the manager of the sixth sector.

Case 1

When H faces north

case 1 A: H↑ I III J↑ VI

CASE 1 B: H↑ I IV J↑ VI

CASE 1 C: H↑ I J↓ VI K III

CASE 1 D: H↑ I J↓ VI K IV

Case 2 :-

H face south
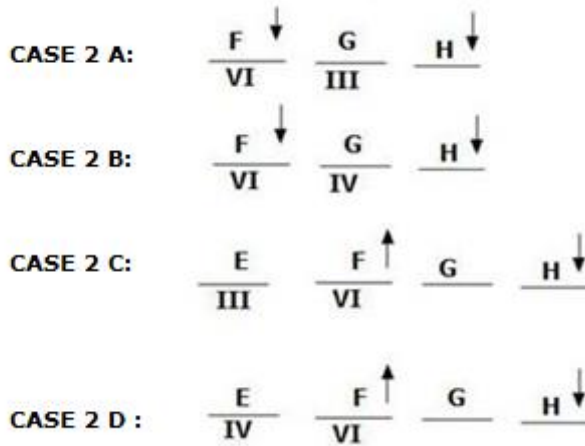
Case 1C and case 1D are eliminated because, Either the manager of the third sector or the manager of the fourth sector (none of them is K) sits towards the immediate left of the manager of the sixth sector.

Fourth sector manager sits second to the right to the third sector manager who face south.

Case 1
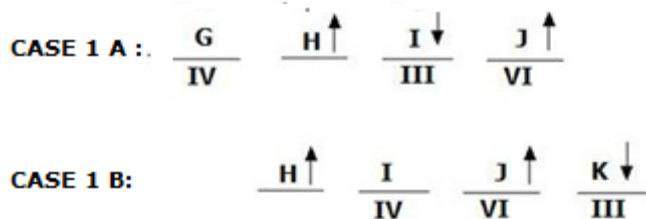
Case 2
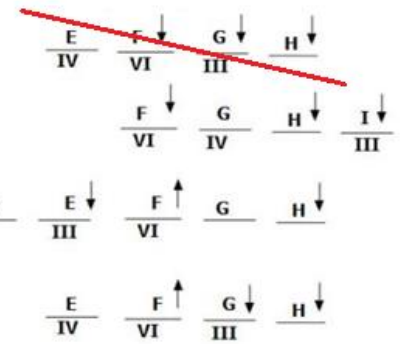
Case 2A is eliminated because, Manager of fourth sector is towards left of the manager of sixth sector.

The Sector manager who is immediate right to the fifth sector manager faces north.

The immediate neighbours of the second sector manager faces in the same direction

The one, who is sitting at extreme ends, face in opposite directions. Manager represents the second sector sit at a gap of one manager towards the right of the manager represents fifth sector. The manager of seventh sector is not next to third sector manager. The manager of seventh sector is to the immediate left of the manager of second sector, who is at a gap of three from the manager of the fourth sector. Only one vowel is used in the alphabetical series.

CASE 1:

case 1 A:

$$\frac{G\uparrow}{IV} \quad \frac{H\uparrow}{I} \quad \frac{I\downarrow}{III} \quad \frac{J\uparrow}{VI} \quad \frac{K\downarrow}{II} \quad \frac{L\uparrow}{VII} \quad \frac{M\downarrow}{V}$$

case 1 B:

$$\frac{E\downarrow}{II} \quad \frac{F\uparrow}{VII} \quad \frac{G\downarrow}{V} \quad \frac{H\uparrow}{I} \quad \frac{I}{IV} \quad \frac{J\uparrow}{VI} \quad \frac{K\downarrow}{III}$$
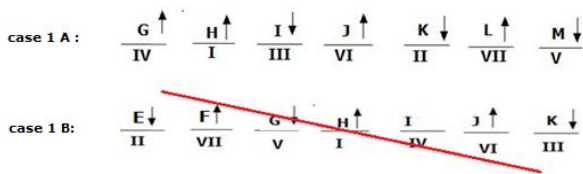
Case 1B is eliminated because The one, who is sitting at extreme ends, face in opposite directions.

Case 2:

case 2 B:

$$\frac{C\downarrow}{II} \quad \frac{D\uparrow}{VII} \quad \frac{E\downarrow}{V} \quad \frac{F\downarrow}{VI} \quad \frac{G}{IV} \quad \frac{H\downarrow}{I} \quad \frac{I\downarrow}{III}$$

CASE 2C;

$$\frac{C\uparrow}{IV} \quad \frac{D}{I} \quad \frac{E\downarrow}{III} \quad \frac{F\uparrow}{VI} \quad \frac{G}{II} \quad \frac{H\downarrow}{VII} \quad \frac{I\downarrow}{V}$$

CASE 2D:

$$\frac{E\uparrow}{IV} \quad \frac{F\uparrow}{VI} \quad \frac{G\downarrow}{III} \quad \frac{H\downarrow}{VII} \quad \frac{I\uparrow}{II} \quad \frac{J\uparrow}{I} \quad \frac{K\downarrow}{V}$$

$$\frac{E\uparrow}{IV} \quad \frac{F\uparrow}{VI} \quad \frac{G\downarrow}{III} \quad \frac{H\downarrow}{I} \quad \frac{I\downarrow}{II} \quad \frac{J\uparrow}{VII} \quad \frac{K\downarrow}{V}$$
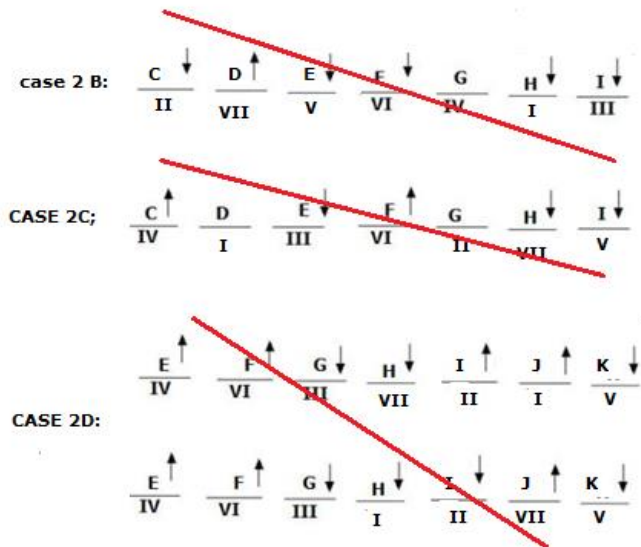
Case 2b, 2c, 2d are eliminated because Only one vowel is used in the alphabetical series. two more reasons are ,The immediate neighbours of the second sector manager faces in the same direction(case 2c,case 2d). The manager of seventh sector is not next to third sector manager(case 2d 1ˢᵗ possibility).

So the final arrangement is,

$$\frac{G\uparrow}{IV} \quad \frac{H\uparrow}{I} \quad \frac{I\downarrow}{III} \quad \frac{J\uparrow}{VI} \quad \frac{K\downarrow}{II} \quad \frac{L\uparrow}{VII} \quad \frac{M\downarrow}{V}$$

Directions (31-35):

A	C	E	F	G	H	B	D
31	17	16	19	14	26	21	23
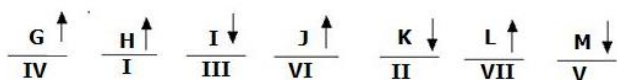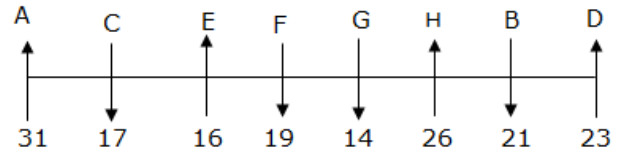
31. Answer: c

32. Answer: c

33. Answer: b

34. Answer: a

35. Answer: c

Explanation:

A sits at one of the extreme ends of the line. Only three people sit between A and G. E sits exactly between A and G. H sits third to the right of E.

Case 1

Case 2
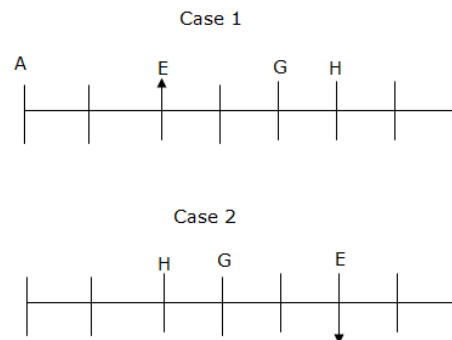
B is an immediate neighbour of H and faces south.C sits second to the right of F. C is not an immediate neighbour of G. Immediate neighbours of G face opposite directions (i.e. if one neighbour faces North then the other neighbour faces south and Vice-Versa). A and D face the same direction as E face (i.e) if E faces north then A and D also face North and

Vice-Versa). Both the immediate neighbours of E face south.

Case 1
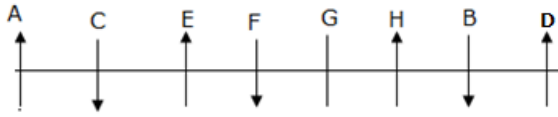
Case 2
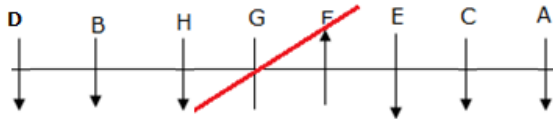
Incase 2, both the immediate neighbours of E face south, this condition is not satisfied so rejected.

Three people sit between B and 16 yr old. 23 yr old sits immediate left of B. Three persons sit between 26 yr and C. The difference of the ages of neighbours of C is 15. Neither B nor C is the youngest. B is elder than C. The difference of the ages of neighbours of G is 7. Immediate neighbours of F faces opposite direction.

Case 1
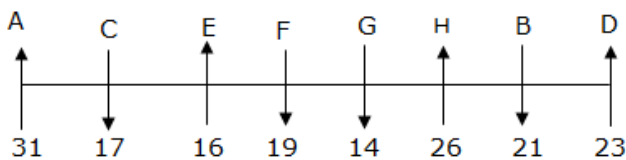
Directions (36-40):

Explanation:

For line PY:

All of them are facing north and the distance between them is increasing in multiples of 5 from the left end (i.e. if the first person is standing at the left end of the line at point P and the remaining will be stand at the distance as follows-5m, 10m,15m…. from point P).
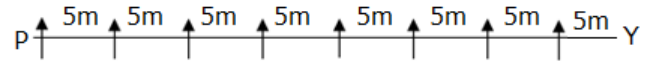
Only four persons are standing between David and Teena. James stands second to the left of Nancy, who is not an immediate neighbor of Teena. David stands at the left ends of the line. Sekar is the immediate neighbor of Rani. Only one person is standing between Guna and Rani.
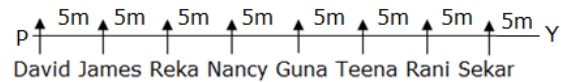
For Line FR:

All of them are facing south (then point F is considered as right end and point R is left end) and the distance between them are increasing in multiples of 4 from the right end of the line(point F) (i.e. if the first person is standing at the right end of the line at point F and the remaining will be standing at the distance as follows-4m, 8m,12m…. from point F).
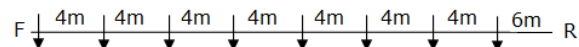
Only three persons stand between Anu and Sony. Two persons stand between Latha and Anu. Latha and Sony are not immediate neighbours. Sony stands at extreme left end of the line. Four persons stand

between Sam and Ragu. Renu stands second to the right of Ragu. Ram stands third to the left of Peter.

F	4m	4m	4m	4m	4m	4m	4m	6m	R
	Latha	Sam	Peter	Anu	Renu	Ram	Ragu	Sony	

36.Answer: b

37.Answer: d

P	8m	8m	8m	8m	8m	Y
	David	James	Reka	Nancy	Guna	Teena

L	5m	45m	Q
	Rani	Sekar	

38.Answer: (c)

	34m	4m	30m	
F		R	T	P

F	7m	7m	7m	7m	7m	7m	7m	19m
	Latha	Sam	Peter	Anu	Renu	Ram	Ragu	Sony

39.Answer: (c)

W	3m	3m	3m	3m	3m	3m	3m	19m	S
	David	James	Reka	Nancy	Guna	Teena	Rani	Sekar	

40. Answer: (c)

P	5m	5m	5m	5m	5m	5m	5m	5m	Y
	David	James	Reka	Nancy	Guna	Teena	Rani	Sekar	

F	4m	4m	4m	4m	4m	4m	4m	6m	R
	Latha	Sam	Peter	Anu	Renu	Ram	Ragu	Sony	

Directions (41 -45):

Toyotto Ram	Swift Ranjit	Benz Rohit	BMW Rakesh	Audi Ravi
↓	↓	↓	↓	↓
↑	↑	↑	↑	↑
Sanjay BMW	Sarveesh Toyotto	Sameer Benz	Sandeep Swift	Shuku Audi

41.Answer: c

42.Answer: d

43.Answer: d

44.Answer: b

45.Answer: a

Explanation:

- Shukul sits at one of the extreme ends.

- There is only one person sits between Shukul and the one who faces the person who like Benz Car.

- Ranjit sits to the immediate right of the person who like Benz Car.

- There is one person sits between Shukul and Sameer.

- Sameer like Benz Car.
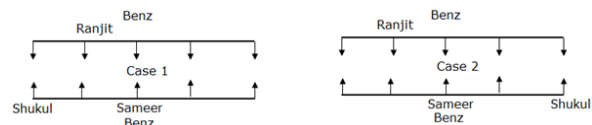
	Ranjit	Benz				Ranjit	Benz	
↓		↓	↓		↓		↓	↓
		Case 1					Case 2	
↑		↑	↑		↑		↑	↑
Shukul		Sameer Benz				Sameer Benz		Shukul

- Number of persons who sits to the right of Sameer is same as that of number of persons who sits to the left of Rohit.

- The person who likes Toyotto Car sits immediate left of Sameer.
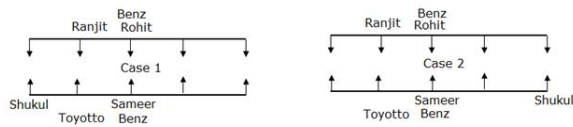
- Two people sit between Sanjay and Sandeep.

- Sanjay sits somewhere to the left of Sandeep.

- Sanjay faces the one who like Toyotto Car.
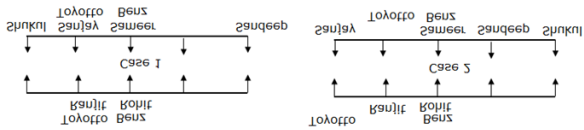
- . One of the people who like Swift Car is an immediate neighbour of the one who like Audi Car in row 2.

- Rakesh sits left of Ram.

- Rakesh is an immediate neighbour of Ravi.

- Ravi faces the person who sits to the immediate right of the person who like Swift Car.

- Sarvesh and Ravi doesn't like Swift Car.

- There is only one person sits between Ranjit and the one who like BMW Car. Case 1 doesn't satisfy above condition(Sarvesh and Ravi doesn't like Swift Car.). So this case is eliminated. And Case 2 will be the final arrangement.
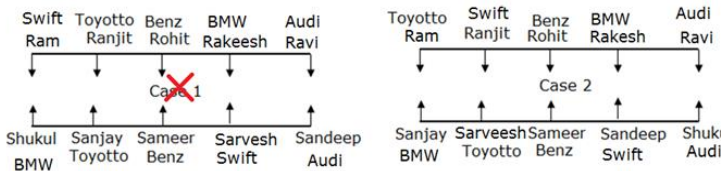
Direction (46 – 50):
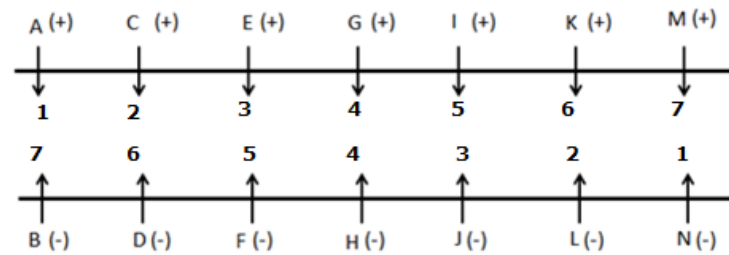
46. Answer: d

47. Answer: b

48. Answer: e

49. Answer: d

50. Answer: d

Explanation:

There are 14 people sitting in 2 rows, 7 in each. A to N are 14 people.

⇒ Boys in one row and girls in other.

⇒ Boys face south and girls face north.

⇒ They sit based on their ranks of JEE from right to left in each row in increasing order of their ranks (i.e. 1st rank at the right end of the row to 7th rank at the left end of the row). The person sitting in row 1 exactly faces the person sitting in row 2.So, the diagram would be something like this:
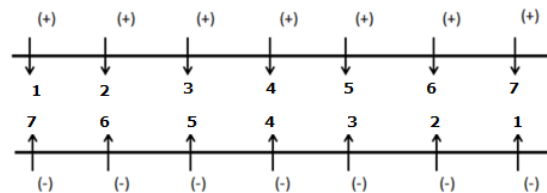
1)4 couples, sitting opposite to each other; AB, EF, IJ and MN. A secured 1st among boys and M came last among boys.

2)E and I came 3rd and 5th among boys while 2nd and 6th was secured by L and D among girls.

So, let us look at the diagram now:
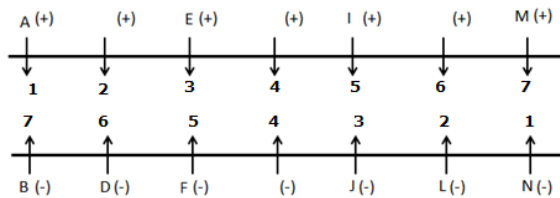
C sits next to A and H sits next to J.

So, let us look at the diagram now:
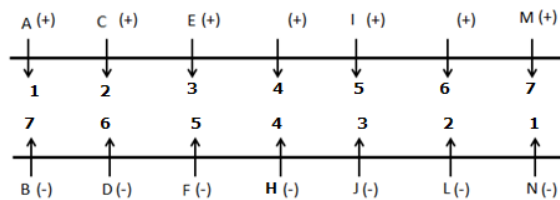
K came last but one.

So, we can conclude that G has scored median among the boys.
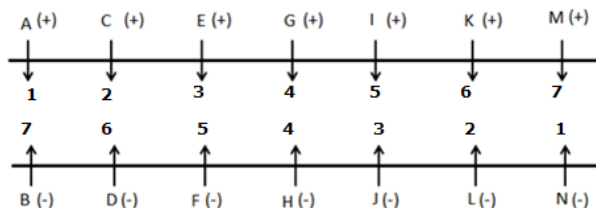
Seating Concentric Diagrams

Directions (1-5): Study the following information and Answer the questions below:

12 persons M, N, O, P, Q, R, U, V, W, X, Y and Z are sitting in tow concentric hexagons with six people in hexagon. M, N, O, P, Q and R sitting in outer hexagon faces centre while U, V, W, X, Y and Z are sitting in inner hexagon faces outside. No one sit in the middle of any sides of hexagon. Q sits 2nd to the left of N. One of the immediate neighbors of W faces N. M and N are not immediate neighbor of each other. One person sits between M and R. U faces the one who sit immediate left of N. O and P are immediate neighbor of each other. The person who faces P is an immediate neighbor of W. There is only one person between Z and the person faces P. Y is 2nd to the left of Z. Z and V opposite to each other. X is an immediate neighbor of V.

1. **Who among the following faces R?**
   (a) X
   (b) Y
   (c) Z
   (d) U
   (e) V

2. **Who among the following are immediate neighbor of M?**
   (a) RO
   (b) RQ
   (c) OP
   (d) QP
   (e) QO

3. **Four of the following five are alike in a certain way based on the given information and so form a group. Find the one which does not belong to the group?**
   (a) UR
   (b) ZO
   (c) VM

   (d) YP
   (e) XQ

4. **If all the persons are arranged in clock wise direction from M how many persons does not change their position?(Excluding M)**
   (a) None
   (b) 4
   (c) 3
   (d) 2
   (e) 1

5. **Who among the following sits 3rd to the right of the person who faces Q?**
   (a) W
   (b) U
   (c) Z
   (d) V
   (e) Y

Directions (6-10): Study the following information and Answer the questions below:

Eight friends E, F, G, H, T, U, V and W are sitting in two squares in such a manner that each member of the inner square sits exactly opposite the member of the outer square. No one sit at any corner. The members sitting in the outer square are T, U, V and W and all of them are facing towards the centre while the members of the inner square are E, F, G and H and they are facing away from the centre. Each of them likes a different city, viz Delhi, Shimla, Mumbai, Chennai, Raipur, Hyderabad, Kolkata and Bhopal, but not necessarily in the same order.

H likes neither Shimla nor Raipur and faces V, who likes neither Bhopal nor Kolkata. The person who likes Hyderabad faces the person who likes Delhi. E, who likes Chennai, faces the immediate neighbor of the person who likes Mumbai. V sits second to the left of W. The person

like Raipur and Delhi are in Separate Square. The person who likes Bhopal sits on the immediate left of W. U, who does not like Mumbai, does not face E. The persons who like Bhopal and Kolkata are immediate neighbors, and one of them faces F, who likes Shimla. The persons who like Hyderabad and Chennai sit in the same Square but they are not immediate neighbors.

6. **Who among the following like Mumbai?**
    (a) U
    (b) F
    (c) G
    (d) T
    (e) W

7. **Who among the following faces the one who like Chennai?**
    (a) The one who like Kolkata
    (b) V
    (c) The one who like Bhopal
    (d) T
    (e) The one who like Hyderabad

8. **Who among the following are immediate neighbors of the one who like Delhi?**
    (a) U and W
    (b) F and G
    (c) W and T
    (d) W and The one who like Mumbai
    (e) T and The one who like Bhopal

9. **Who faces the one who sits 2nd to the left of the one who like Shimla?**
    (a) U
    (b) W
    (c) T
    (d) V
    (e) E

10. **Four of the following five are alike in a certain way based on the given information and so form a group. Find the one which does not belong to the group?**

(a) H
(b) W
(c) F
(d) G
(e) E

Directions (11-15): Study the following information and Answer the questions below:

Twelve persons U, V, W, X, Y, Z, I, J, K, L, M and N are sitting in the two Hexagonal table. All of them are sitting with equal distance from each other and six persons were sitting in each the inner Hexagon and the outer Hexagon. The persons sitting in the one hexagon is exactly sits opposite to the persons sitting in the another hexagon and some of the are facing centre of the hexagon while some are facing opposite to the centre of the Hexagon. All the persons sit at corner of the sides of hexagon. Note: A is opposite to B means they are in different hexagon.

L sits opposite to the one who sits second to the right of Z and both of them are not sitting in the same hexagon. Z and the one who sits in the outer hexagon facing each other. U sits opposite to the person who sits to the immediate left of X, who is an immediate neighbor of L. U faces the same direction as X, who is not an immediate neighbor of the one who faces Z. M sits opposite to J, both are faces same direction and does not sit in the same table. J sits second to the right of N, who sits to the immediate left of V. N and V are facing the same direction as X. J does not sit in the same hexagon as U. K and W are immediate neighbors and faces the same direction. Y sits opposite to the person, who sits second to the left of W. Immediate neighbors of K faces opposite directions (if one faces centre, then another one faces away from the centre of the table). Equal number of persons is facing the same directions in the inner hexagon. The immediate neighbors of the one who faces the person I are facing the opposite direction as W.

11. Who among the following person is sitting third to the left of U?
    (a) M
    (b) Z
    (c) K
    (d) W
    (e) None of these

12. Who among the following person is sitting second to right of the one who faces I?
    (a) J
    (b) N
    (c) L
    (d) V
    (e) None of these

13. How many person sit between the person who is opposite to U and the person who is opposite to W?
    (a) 2
    (b) 1
    (c) 3
    (d) Cannot be determined
    (e) None of these

14. Four of the following are alike in a certain way so form a group which of the following does not belong to the group?
    (a) L, W
    (b) Z. V
    (c) U,Y
    (d) I, X
    (e) N, K

15. Who sits 4th to the left of the one who sits immediate right of K?
    (a) W
    (b) V
    (c) U
    (d) I
    (e) M

Directions (16-20): Study the following information and Answer the questions below:

In a ground there are 2 benches in rectangle form. One rectangle is inside another. Twelve people went to the ground and sit on the benches i.e on two different rectangles-one inside another. T, D, R, A, S and P are in the outer rectangle facing inward. E, K, U, M, H and N are sitting in the inner rectangle facing outward. They all are sitting in such a way that in each rectangle four persons are sitting in the middle of the sides and two persons are sitting on diagonally opposite corners. Each friend in the inner rectangle is facing another friend of the outer rectangle.

T sits on any of the corner. There are exactly two persons sitting between T and S. H sits second to the left of E. A is facing N and D is not opposite R in the outer rectangle. R is on the immediate left of the one who is facing E. Neither H nor E faces either S or T. S is not sitting adjacent to A. K is not facing T. Between K and M there are as many persons as between R and P.

16. Who among the following sits third to the right of R?
    (a) S
    (b) A
    (c) T
    (d) P
    (e) None of these

17. What is the position of H with respect to M?
    (a) Second to the left
    (b) Immediate right
    (c) Fourth to the left
    (d) Immediate left
    (e) Second to the right

18. If 'N' is related to 'H' and 'K' is related to 'E' in a certain way, then 'U' is related to which of the following?
    (a) M
    (b) U
    (c) H
    (d) E
    (e) None of these

19. Who among the following person sits opposite to K in outer Square?
    (a) P
    (b) A
    (c) D
    (d) E
    (e) None of these

20. What is the position of T with respect to D?
    (a) Third to the right
    (b) Second to the left
    (c) Third to the left
    (d) Immediate right
    (e) None of these

Directions (21-25): Study the following information and answer the questions given below.

Eight people viz. C, V, B, U, D, K, W and J are sitting in two circles in equal numbers facing each other as shown in the fig. below. The people sitting in the outer circle faces towards the centre of the circle and the people sitting in the inner circle faces outside the centre of the circle. Each of them likes different Perfumes viz. Gucci, Denver, Engage, Wild Stone, Boss, Fogg, Park Avenue and Armani. All the information is not necessary to be in the same order. Also, they were made to sit in a straight line, the people sitting in the inner circle faces south and like same Perfume. The persons sitting in the outer circle faces north and likes different Perfume**.**
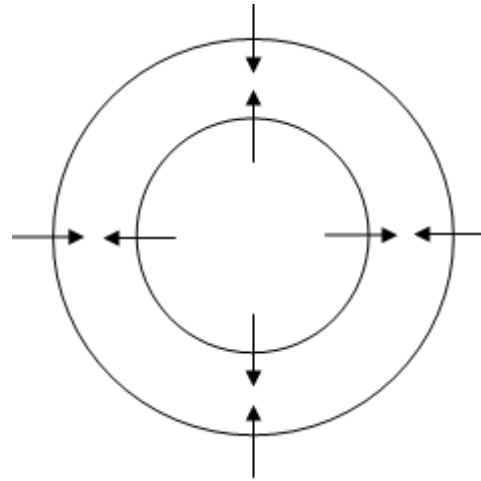
J sits third to left of both B and the one who likes Armani Perfume in the straight line. B is an immediate neighbour of W and sits in the extreme end of the line. The person, who faces K in the circle, likes Fogg Perfumes in the straight line. U sits immediate right of K in the circle. W sits second from the extreme end of the line and likes the Perfume liked by J in the circle. The person who likes Denver faces the person who sits immediate left of C in the circle. J faces the person who sits to the immediate left in the straight line. The person who likes Armani Perfume faces the person who likes Wild Stone Perfume. W is not an immediate neighbour of J, who likes Engage Perfume in the circle. W and C don't face each other or sits in the same circle. B faces the person who sits immediate left of D, who likes Boss Perfume. K and V face each other neither of them likes Denver Perfume. D sits second to the left of the one who likes Armani Perfume in the straight line. C neither likes Armani or Park Avenue Perfume while sitting in the circle. The person, who likes Gucci Perfume, sits second to the left of the one who likes Fogg Perfume in the straight line. J doesn't like Denver Perfume in the straight line.

21. What is the position of K with respect to U in the Straight line?
    (a) Second to the right
    (b) Fourth to the right

(c) Third to the left

(d) Fourth to the left

(e) None of these

22. Which of the following statement is true regarding the circular arrangement?

(a) C and J face each other

(b) The one who likes Engage Perfume is an immediate neighbour of one who likes Denver Perfume.

(c) U likes Park Avenue Perfume and sits to the immediate left of C

(d) The one who likes Fogg Perfume and sits to the immediate left of V

(e) All are true

23. Who among the following likes Wild Stone Perfume in the straight line?

(a) C

(b) The one who sits third to the right of J

(c) W

(d) J

(e) Cannot be determined

24. Four of the following five are alike in a certain way thus forms a group with respect to circular Arrangement. Find the one which doesn't belong to the group?

(a) B – Fogg

(b) J – Boss

(c) U – Denver

(d) D – Wild Stone

(e) V – Gucci

25. How many Person sits between the one who like Armani perfume and the one who like Engage in Straight Line?

(a) 3

(b) 4

(c) 5

(d) 6

(e) 2

Directions (26-30): Study the following information and answer the questions given below

Twelve persons M, N, O, P, Q, R, S, T, U, V, W and X were seated in rectangular shaped concentric walls as shown in Figure
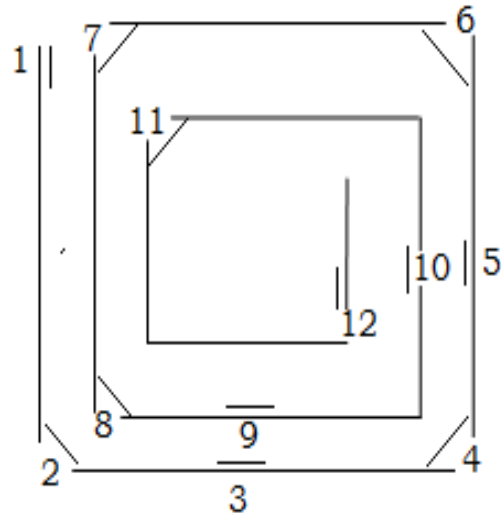
There were 12 boxes and only one person was seated on each box, the persons were seated facing outside the centre. There were 6 box kept on the corners and 6 were kept along the side of the walls. The Box was numbered 1-12 as shown in the figure. Any person seated on the corner of a wall can see the neighbouring persons seated along the 2 neighbouring walls or the neighbouring corners (only when nobody is there along the neighbouring side of the wall). For example, person on chair 8 can see person on chair 9 and 7 but not 10. Similarly, any person seated on the side of the wall can see the persons seated on the neighbouring corners of the wall. For example, person on chair 3 can see the persons on chair 2 and 4 only.

M's seat number was thrice as that of N's seat number. M could not see anybody. O was 3rd to the right of N who

was seated on one of the corners. P could see Q and W. R was seated 3rd to the left of S. Sum of the seat numbers of S and Q was equal to the seat number of T. T could not see anybody. U's seat number was one third of the V's seat number. W was seated third to the left of U.

26. In which box number X is seated?
    (a) 11
    (b) 12
    (c) 10
    (d) 8
    (e) 7

27. Four of the following five are alike in a certain way thus forms a group. Find the one which doesn't belong to the group?
    (a) U
    (b) N
    (c) P
    (d) Q
    (e) S

28. Total sum of the seat number of W and U is equal to whom?
    (a) 12
    (b) 11
    (c) 10
    (d) 9
    (e) 8

29. Who among the following sits 5th to the right of the one whose seat number is 7?
    (a) R
    (b) N
    (c) U
    (d) O
    (e) S

30. Which of the followings sits at middle of the walls?
    (a) P
    (b) W
    (c) Q

    (d) M
    (e) N

Directions (31-35): Study the following information and answer the questions given below

Six Cricketer P, Q, R, S, T and U seated around a hexagonal Cricket Ground which was built in a way that there were 2 hexagons (inner and outer). The positions were marked as shown below:
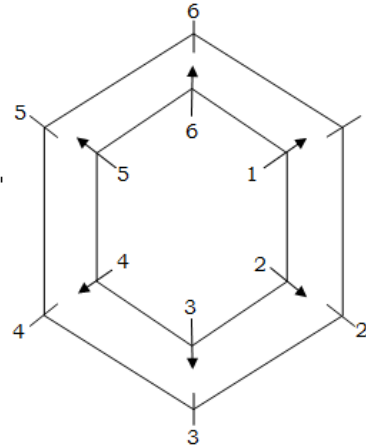
Initially they were seated along the inner Ground faces outside the centre. The following information is known about their initial arrangement:

1. Two persons sitting between U and S whose seat number was an even value
2. Q's seat number was one third as that of P's seat number.
3. Q was seated to the immediate right of T.

T had a dice which had the numbers 1-6. Each person rolled the dice only once alphabetically i.e. A rolled the dice followed by B and so on. They changed positions as per the number they rolled.

Conditions for their movements were as follows:

1. The person 1st to roll an even value moved to position 6 of the outer Ground. The person 2nd to roll an even value shifted to his immediate Right. The person 3rd to roll an even value moved to position 4 of the outer Ground.

2. The person 1st to roll an odd value moved to position 1 of the outer ground. The person 2nd to roll an odd value

shifted to his immediate left. The person 3rd to roll an odd value moved to position 3 of the outer ground.

The numbers rolled by them were as follows:

1. P-5
2. Q-3
3. R-6
4. S-1
5. T-2
6. U-4

NOTE: If any required position is already taken by another person during the movements, then the person (who was to move) remains at his original position.

31. After both movement how many Cricketer are in outer hexagon?
    (a) 1
    (b) 2
    (c) 3
    (d) 4
    (e) 5

32. In final arrangement how many person don't change their position?
    (a) None
    (b) 5
    (c) 4
    (d) 3
    (e) 2

33. If the person sits at outer ground faces outside then who sits third to the right of R?
    (a) S
    (b) T
    (c) Q
    (d) U
    (e) P

34. Four of the following five are alike in a certain way thus forms a group. Find the one which doesn't belong to the group?
    (a) S

(b) R
(c) Q
(d) U
(e) P

35. If Q shift to the outer ground in position 2nd Then Which of the following are the neighbours of Q?
    (a) S, U
    (b) S, P
    (c) R, P
    (d) U, P
    (e) None

Directions (36-40): Study the following information and answer the questions given below

Nine persons P, Q, R, S, T, U, V, W and X were seated along two concentric triangular. There were 3 persons seated along the inner smaller park such that there was 1 person at each of the corner and 6 were seated along the outer larger park such that there was 1 person at each of the corner and one person along each of the side. The persons seated along the outer park were seated facing towards the centre and the persons seated along the Inner Park were seated facing away from the centre. The seats were numbered as shown in the figure:
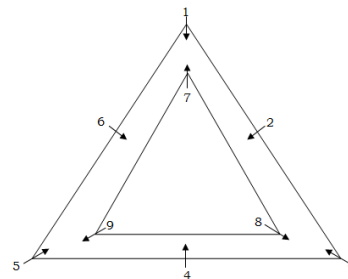
- P was seated to the Immediate right of the one whose seat number was thrice as that of U's seat number
- T's seat number was twice as that of S's seat number. S was seated along one of the sides.
- R and T were seated at consecutive seat numbers.

- X's seat number was more than that of Q's seat number.
- Difference between R's seat number and Q's seat number was 2.
- W was seated at one of the corners but was not neighboring S.

36. In which seat number W is seated?

 (a) 9
 (b) 4
 (c) 5
 (d) 6
 (e) 7

37. Who faces the person who sits at seat number 7?

 (a) X
 (b) P
 (c) Q
 (d) U
 (e) R

38. Which of the following sits at outer triangle?

 (a) W
 (b) X
 (c) T
 (d) R
 (e) None of these

39. Which seat number is immediate neighbor of V?

 (a) 1, 4
 (b) 4, 6
 (c) 2, 4
 (d) 7, 9
 (e) 5, 4

40. Who sits 4th to the right of the person whose seat number is 6?

 (a) S
 (b) V
 (c) Q
 (d) U
 (e) P

Directions (41-45): Study the following information and answer the questions given below

Sixteen persons are sitting around two circular tables as one is inscribed in another one. All of them are facing towards the center. Eight persons i.e. M, N, O, P, Q, R, S and T are sitting around the inner circular table. Eight persons i.e. E, F, G, H, I, J, K and L are sitting around the outer circular table.

Note- The persons of outer circular table are sitting exactly behind the persons sitting around the inner circular table. The persons of inner circular table are sitting exactly ahead the persons sitting around the outer circular table.

P sits 3rd to the right of the one who sits ahead of E. L is

not an immediate neighbor of J. F sits second to the left of E. M is not an immediate neighbor of O. Q sits neither ahead of E nor F. K sits 2nd to the left of L. Q and S are immediate neighbors of T. G sits immediate right of E. R sits immediate right of the person, who sits ahead of F. H sits behind of O. J sit 2nd to the right of H.

41. Who sits 5th to the right of the one who is behind M?

(a) L

(b) K

(c) F

(d) E

(e) G

42. Who among the following seated opposite to N in same circle?

(a) S

(b) M

(c) O

(d) Q

(e) T

43. How many people are seated between the person who is immediate left of the person who faces T and E (in clock wise direction from E)?

(a) 2

(b) 4

(c) 5

(d) 6

(e) 3

44. Which of the following person behind the person who sit 4th to the left of S?

(a) E

(b) H

(c) G

(d) I

(e) J

45. The person who is ahead of I is between which of the following persons?

(a) Q, M

(b) J, H

(c) T, S

(d) O, Q

(e) M, N

Directions (46-50): Study the following information and answer the questions given below

There are nine persons P, Q, M, R, S, T, U, V, W and X sitting on the corners of two different polygons of which one is square and other is pentagon. Both the polygon is concentric such that Square is inside the pentagon. All the persons are facing inside the polygon. S is sitting third to the right of X. X is exactly ahead or behind of R. W is sitting third to the left of R. T is the immediate neighbour of R. P is not the immediate neighbour of U. V sits on the immediate left of Q. U is neither the immediate neighbour of T nor X.

46. Who among the following sits second to the right of U after arrangement?

(a) Q

(b) R

(c) P

(d) T

(e) V

47. How many persons are sitting between R and W in final arrangement when counted to the right of W.

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

48. Which of the following pair is immediate neighbor of X?

    (a) S, Q
    (b) R, Q
    (c) U, W
    (d) None of these
    (e) S, V

49. If all the persons sitting in outer polygon faces outside than which of the following sitting second to the right of T?

    (a) W
    (b) P
    (c) U
    (d) R
    (e) None of these

50. If the entire person in outer polygon arranged in alphabetical order from P in clock wise direction then how many person change their position? (Except P)

    (a) 4
    (b) 1
    (c) 2
    (d) 3
    (e) None of these

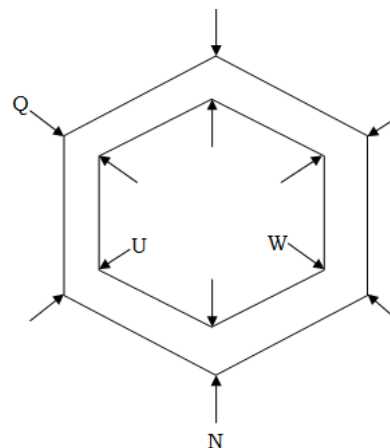# Seating Concentric Diagrams – Answer and Explanation

Direction (1-5)

Explanation in detail:

25. Q sits 2nd to the left of N.
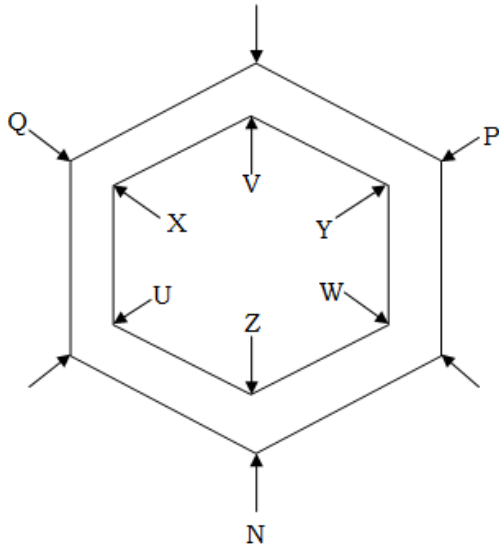26. One of the immediate neighbors of W faces N.
27. U faces the one who sit immediate left of N

28. The person who faces P is an immediate neighbor of W.

29. There is only one person between Z and the person faces P
30. Z and V are opposite to each other.
31. Y is 2nd to the left of Z.
32. X is an immediate neighbor of V.

33. O and P is immediate neighbor of each other.
34. One person sits between M and R.
35. M and N is not immediate neighbor of each other.
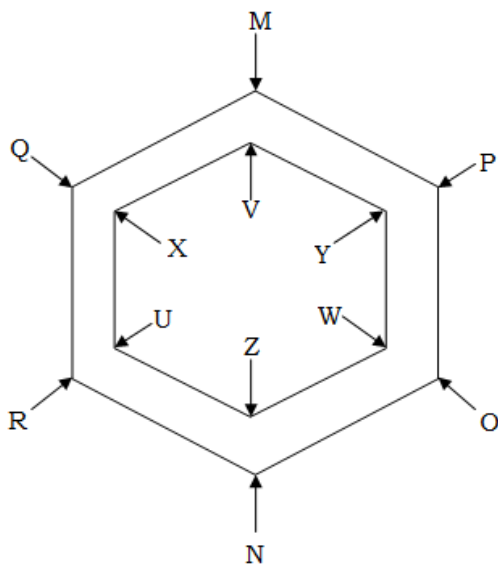
Final Arrangement
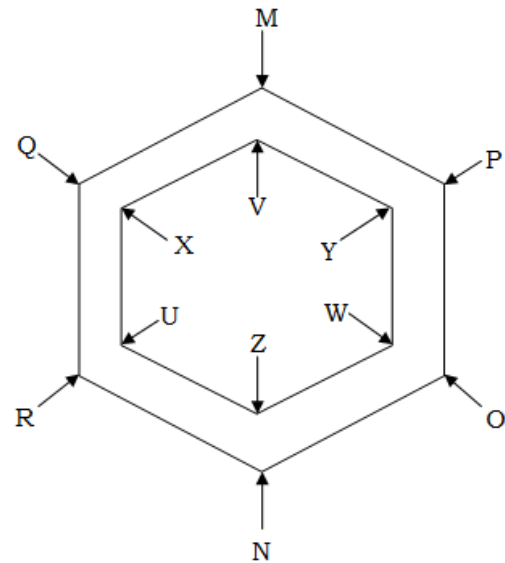
1. D
2. d
3. b
4. e
5. a

Direction (6-10)

Explanation in detail:

1. H likes neither Shimla nor Raipur and faces V.
2. V sits second to the left of W.
3. The person who likes Bhopal sits on the immediate left of W.
4. The Persons who like Bhopal and Kolkata are immediate neighbors.

Bhopal

V
H

W
Kolkata

5. The persons who like Bhopal and Kolkata are immediate neighbors, and one of them faces F, who likes Shimla. (Here Two case for F)
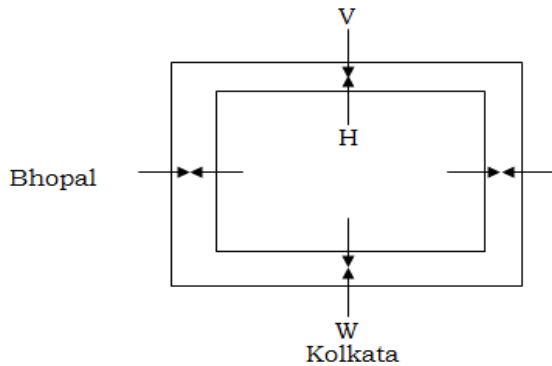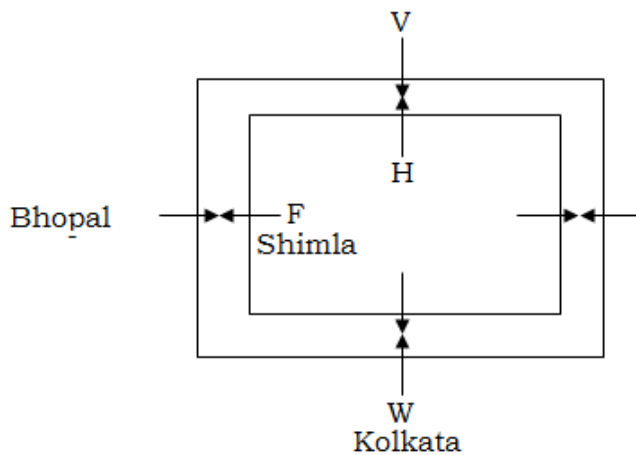
CASE 1

Bhopal

V
H
F
Shimla

W
Kolkata

CASE 2

Bhopal

V
H
Shimla
F

W
Kolkata
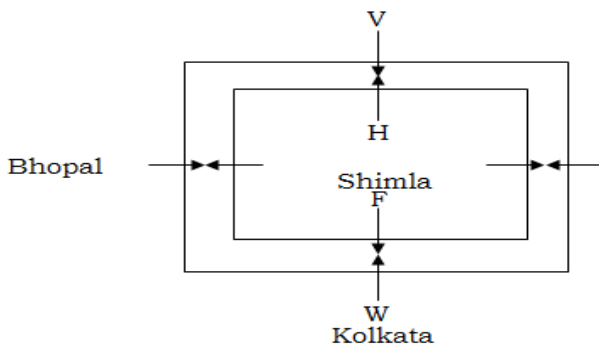
6. The person who likes Hyderabad faces the person who likes Delhi.
7. E, who likes Chennai, faces the immediate neighbor of the person who likes Mumbai.
8. The persons who like Hyderabad and Chennai sit in the same Square but they are not immediate neighbors.
9. U, who does not like Mumbai, does not face E.

CASE 1

Delhi
V

Bhopal
H
Hyderabad
F   G   Mumbai
Shimla
Chennai
E

W
Kolkata

CASE 2

Mumbai
V

Bhopal
H
E   Hyderabad
Chennai   G   U Delhi
Shimla
F

W
Kolkata
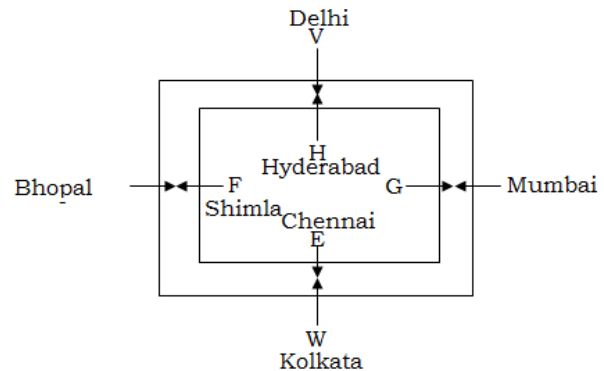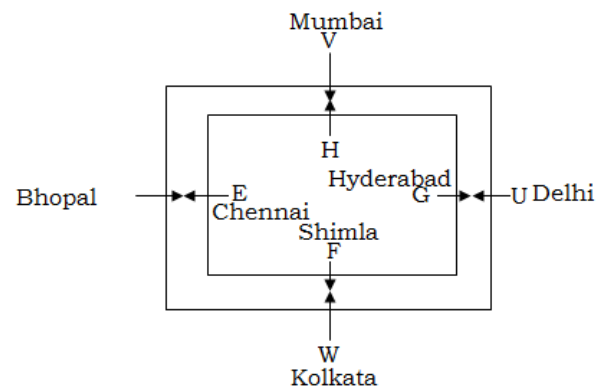
10. H likes neither Shimla nor Raipur.
11. The person like Raipur and Delhi are in Separate Square.

CASE 2 was eliminated (H not like Raipur)

CASE1
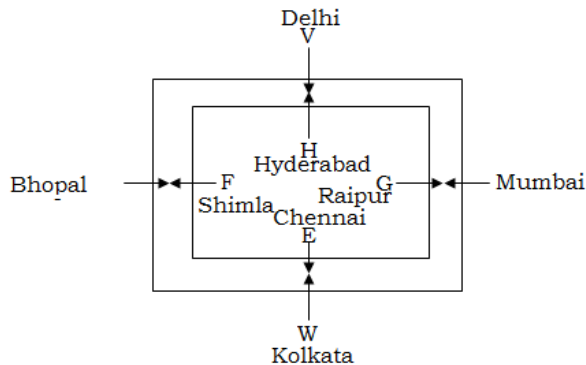
12. U does not like Mumbai.
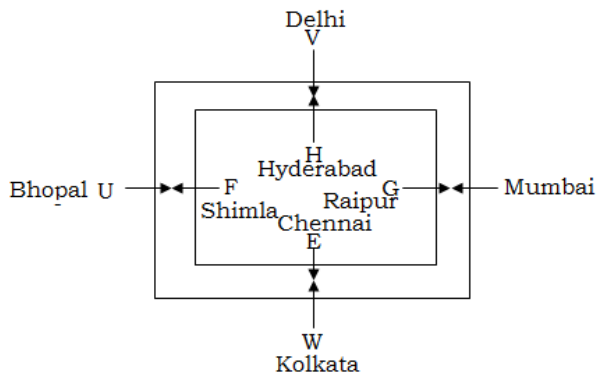
Final Arrangement
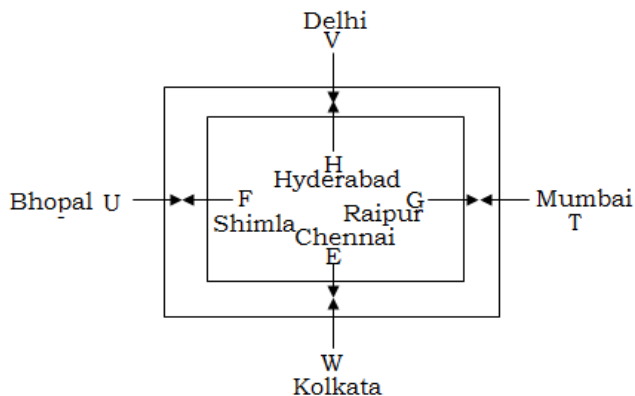
6. d

7. a

8. e

9. c

10. b

Direction (11-15)

Explanation in detail:

1. L sits opposite to the one who sits second to the right of Z and both of them are not sitting in the same hexagon.
2. Z and the one who sits in the outer hexagon facing each other. (From here it is clear that Z is in Inner hexagon and faces outside)
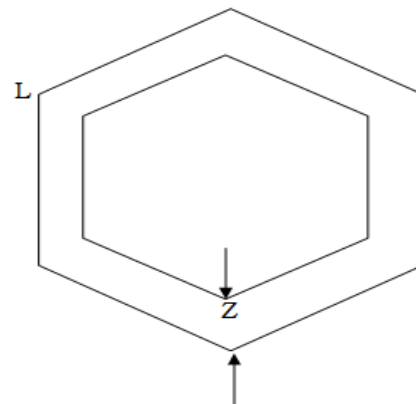
3. U sits opposite to the person who sits to the immediate left of X, who is an immediate neighbor of L.
4. U faces the same direction as X, who is not an immediate neighbor of the one who faces Z.

Two case for X

CASE 1
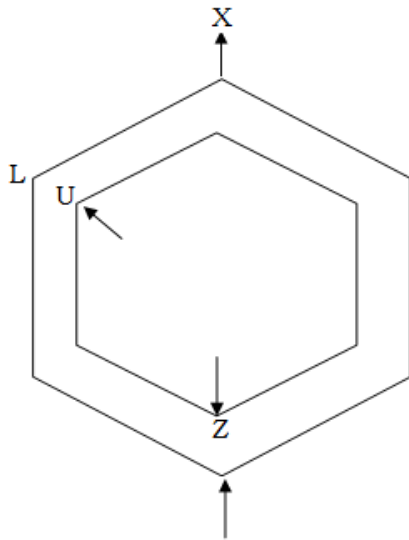
CASE2
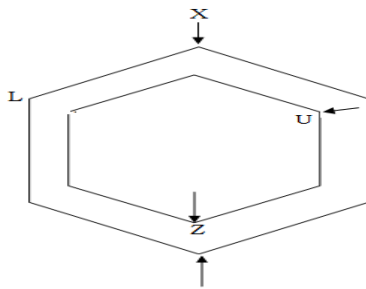
5. M sits opposite of J, both are faces same direction and does not sit in the same table.
6. J sits second to the right of N, who sits to the immediate left of V.
7. N and V are facing the same direction as X.
8. J does not sit in the same hexagon as U.

CASE 1eliminated (M is immediate neighbor of Z. V does not faces same direction as X)

CASE 2
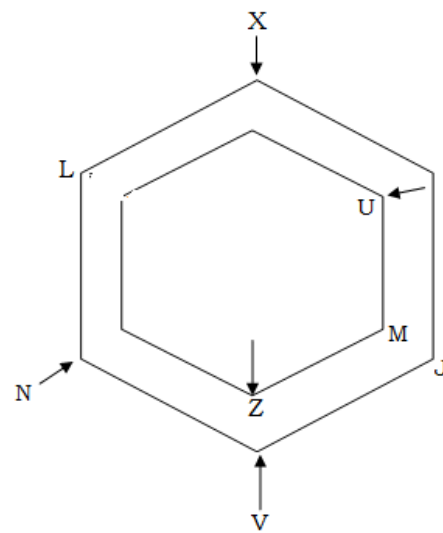
9. K and W are immediate neighbors and face the same direction.
10. Y sits opposite to the person, who sits second to the left of W.
11. Immediate neighbors of K faces opposite directions

CASE 2
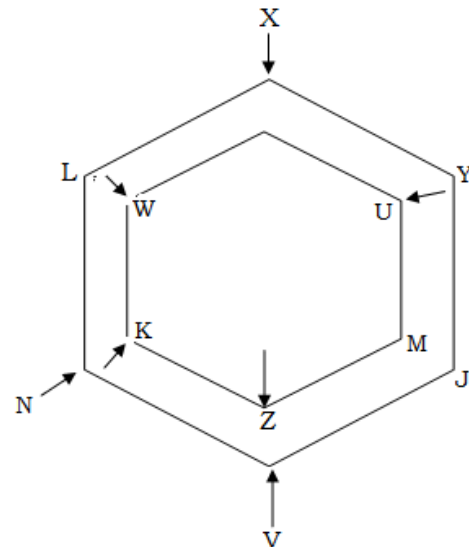
Note: It is given in inner hexagon equal number of person faces in and out. M and J faces outside

12. Equal number of persons is facing the same directions in the inner hexagon.
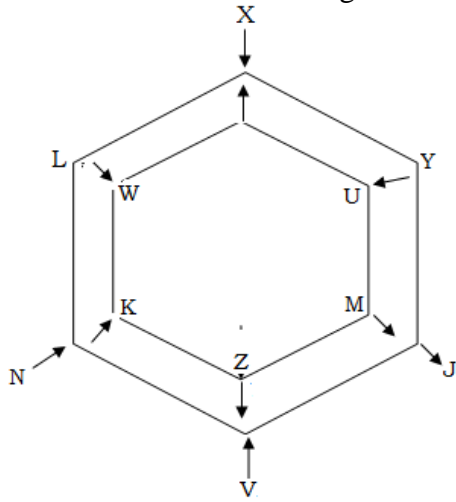
13. The immediate neighbors of the one who faces the person I are facing the opposite direction as W.

Final Arrangement
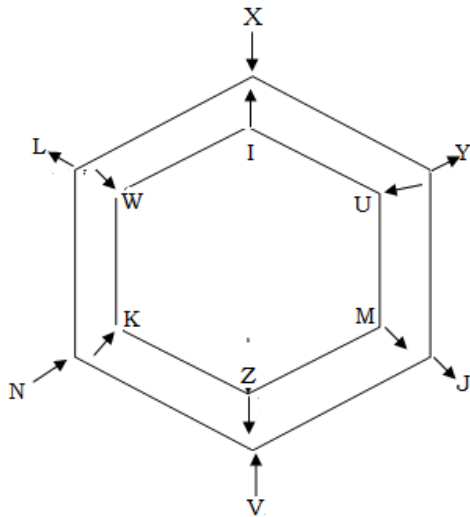
11. c

12. b

13. d (either 1 or 3 persons sit between them)

14. e (both are facing in same direction)

15. a

Direction (16-20)

Explanation in detail:

1. T sits on any of the corner.
2. There are exactly two persons sitting between T and S.
3. Four persons are sitting in the middle of the sides and two persons are sitting on diagonally opposite corners.
   From the above information it clear diagram is like this shown below.
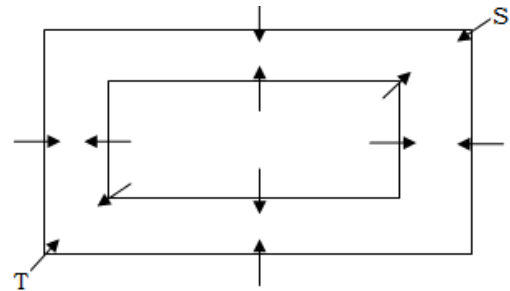
4. H sits second to the left of E.
5. Neither H nor E faces either S or T.
6. R is on the immediate left of the one who is facing E. Two case for E

H and E Only sit at middle of the sides.

CASE 1
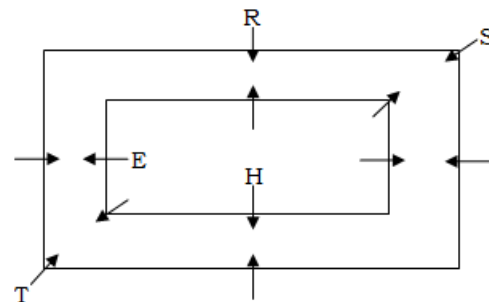
CASE 2
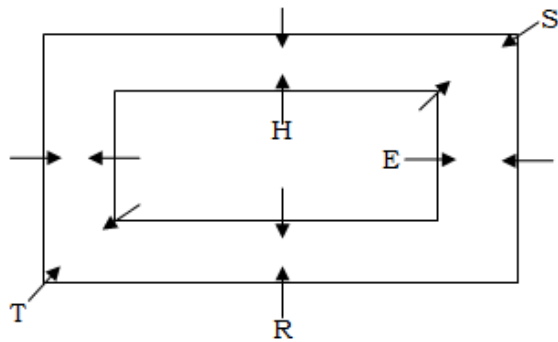
7. A is facing N
8. S is not sitting adjacent to A.
   From here case 1 is eliminated as (no place for A)
   CASE 2
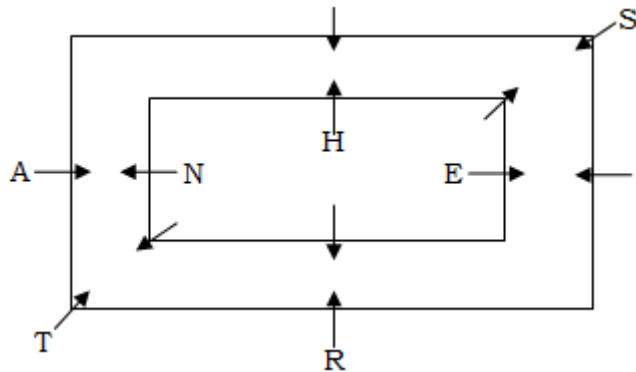
9. D is not opposite R in the outer rectangle.

CASE 2
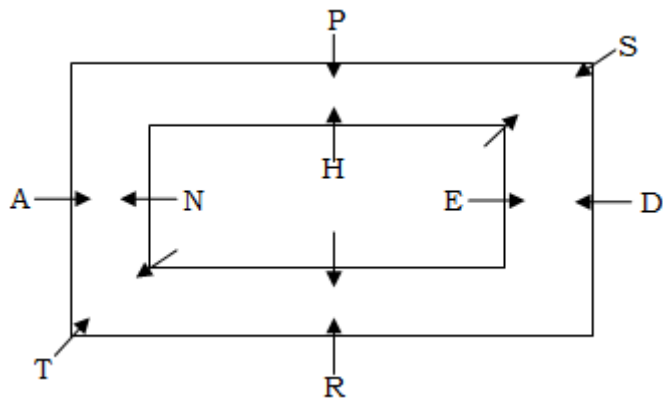
10. K is not facing T.
11. Between K and M there are as many persons as between R and P.

CASE 2
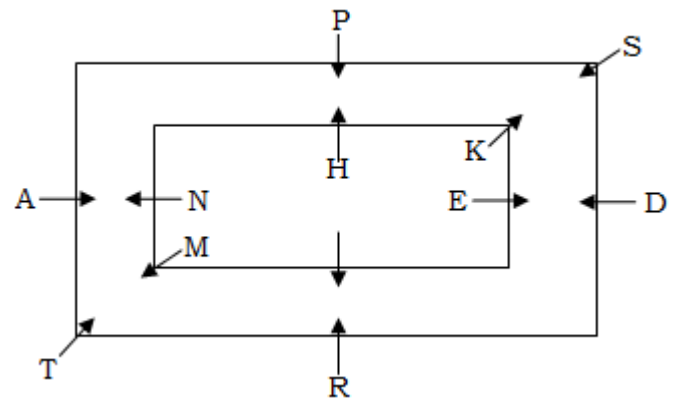
Final Arrangement
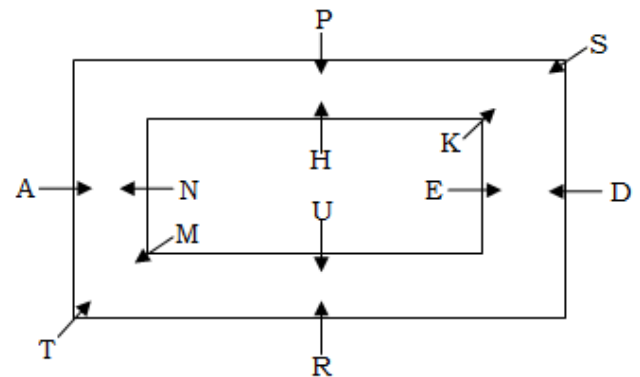
16. d

17. e

18. a

19. E

20. b

Direction (21-25)

Explanation in detail:

1. B is an immediate neighbour of W and sits in the extreme end of the line.
2. W sits second from the extreme end of the line and likes the Perfume liked by J in the circle.
3. J sits third to left of both B and the one who likes Armani Perfume in the straight line.
4. W is not an immediate neighbour of J, who likes Engage Perfume in the circle.

From here it is clear that W and J faces North direction as per given instruction. Because perfumes liked by W in circle and line are different. (The persons sitting in the outer circle faces north and likes different Perfume)

Line Arrangement
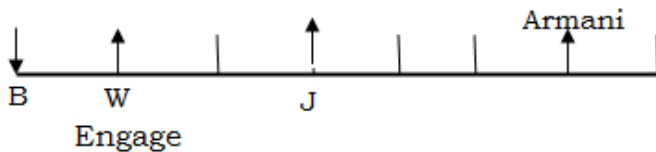
CASE 1

CASE 2

Circle Arrangement
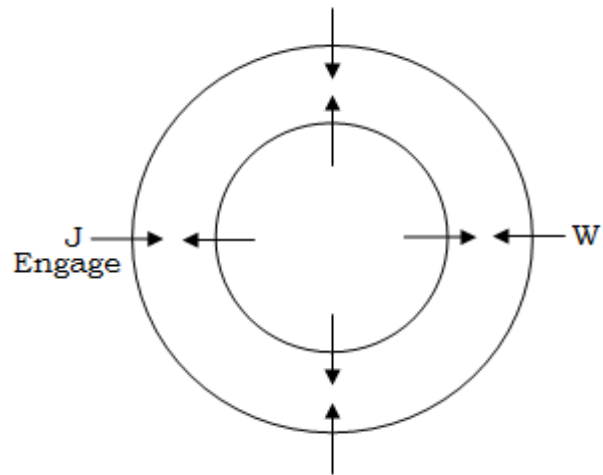
5. D sits second to the left of the one who likes Armani Perfume in the straight line.
6. U sits immediate right of K in the circle.
7. K and V faces each other

From here 2 case for K in circle

Line Arrangement
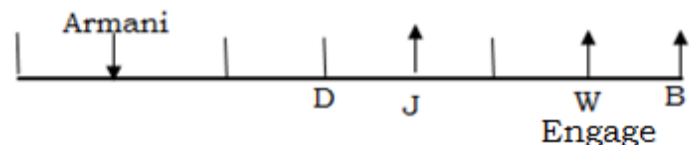
CASE 1

CASE 2

Circle Arrangement
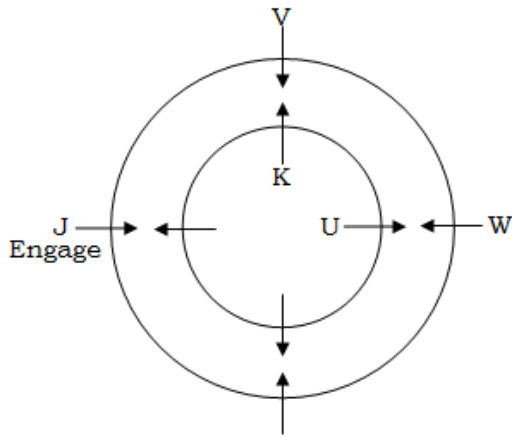
CASE 1

CASE 2
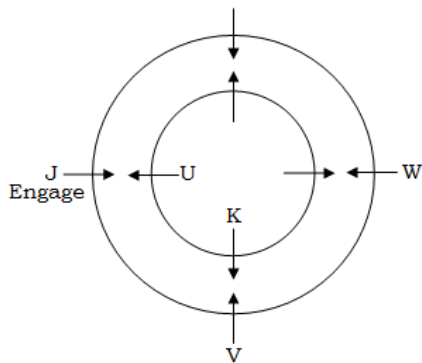
For CASE 1 Line Arrangement (B facing south so it is on inner circle)
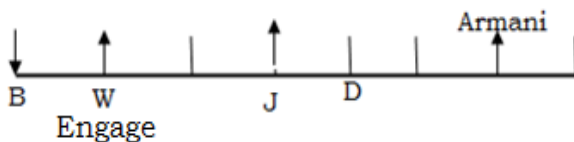
8. The person who likes Denver faces the person who sits immediate left of C in the circle.
9. J faces the person who sits to the immediate left in the straight line.
10. B faces the person who sits immediate left of D, who likes Boss Perfume

From we check the CASE 1 and CASE 2 of circle

CASE 1(J faces B which is wrong because B is not neighbour of J in CASE 1 Line arrangement)
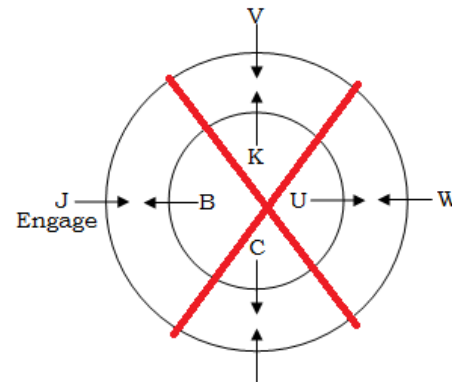
CASE 2 (The person who likes Denver faces the person who sits immediate left of C in the circle)
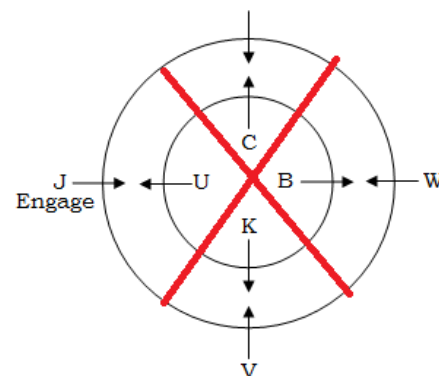
Here it clear that CASE 1 and CASE 2 of Circle wrong and B is in Outer circle.

CASE 1 of Line arrangement also eliminated

For CASE 2 of Line Arrangement

Armani → D J W B
Engage
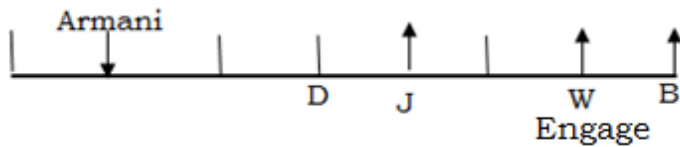
11. The person who likes Denver faces the person who sits immediate left of C in the circle.
12. J faces the person who sits to the immediate left in the straight line.
13. B faces the person who sits immediate left of D, who likes Boss Perfume

Armani → D J W B
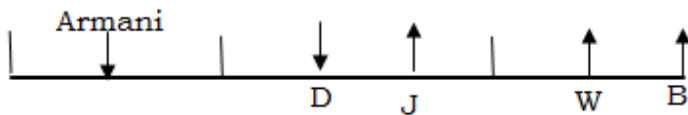
CASE 2 of Circle Arrangement Eliminated (D is immediate left of J so J have to face D but in CASE 2 of circle arrangement J faces U)

CASE 1

V
K
J → ← D U → ← W
Engage Denver
C
B
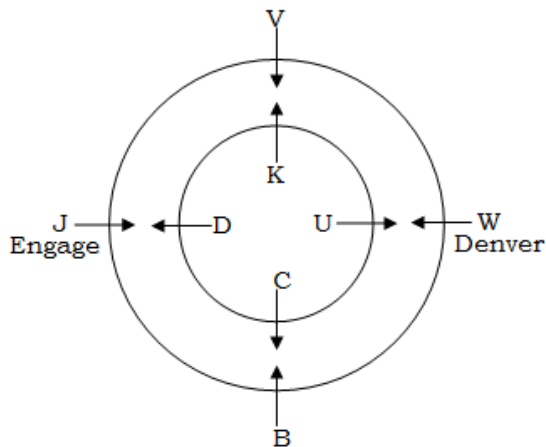
14. The person, who faces K in the circle, likes Fogg Perfumes in the straight line.
15. The person who likes Armani Perfume faces the person who likes Wild Stone Perfume.

16. C neither likes Armani or Park Avenue Perfume while sitting in the circle.

Line Arrangement
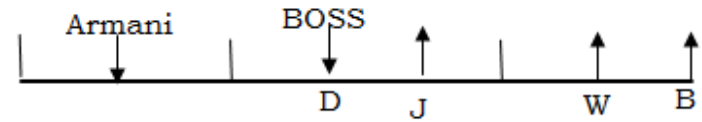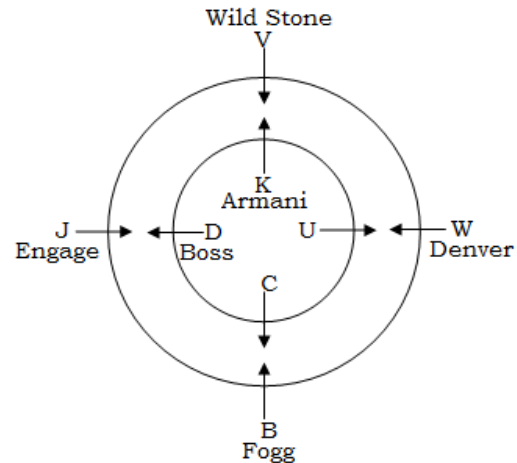
CASE 2

Armani → BOSS → W B
D J

Circle arrangement

CASE 1

Wild Stone
V
K
Armani
J → ← D U → ← W
Engage Boss Denver
C
B
Fogg

17. C neither likes Armani or Park Avenue Perfume while sitting in the circle

Circle Final Arrangement
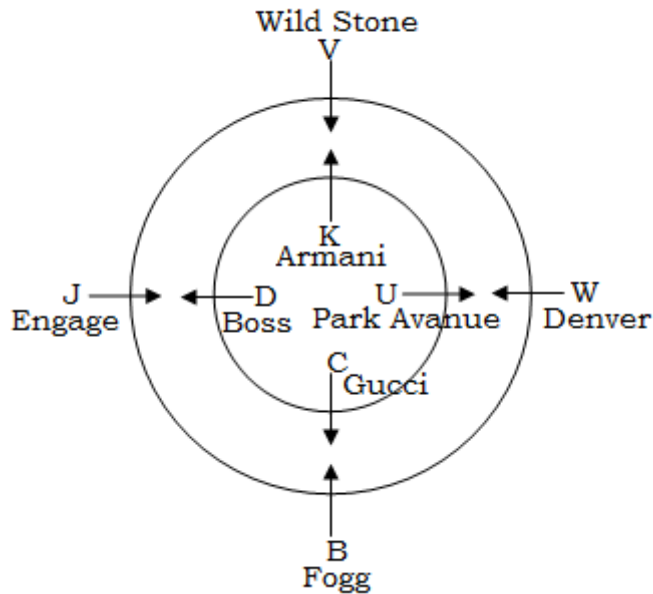
18. The person, who faces K in the circle, likes Fogg Perfumes in the straight line.
19. The person, who likes Gucci Perfume, sits second to the left of the one who likes Fogg Perfume in the straight line.
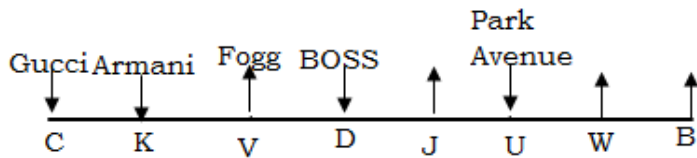
CASE 2

20. W sits second from the extreme end of the line and likes the Perfume liked by J in the circle
21. J doesn't like Denver Perfume in the straight line.

CASE 2
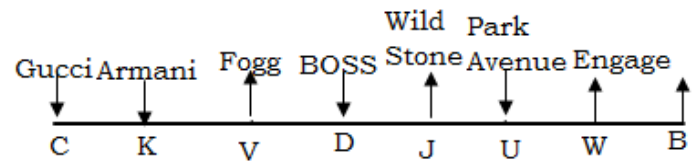
Line Final Arrangement
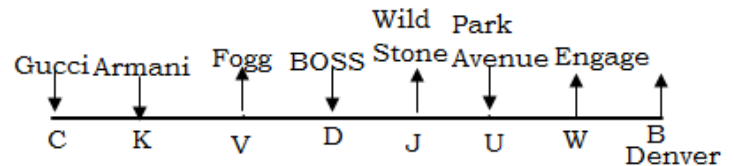
21.B

22.c

23.d

24.a

25.b

Direction (26-30)

Explanation in detail: (1 case is missing, refer attachement)

1. **M's seat number was thrice as that of N's seat number.**
2. **M could not see anybody**
3. O was 3rd to the right of N who was seated on one of the corners.

M = 3*N
10
11
12 = 3*4

.

$$S + Q = T$$
$$2 + 8 = 10$$
$$\cancel{8 + 2 = 10}$$
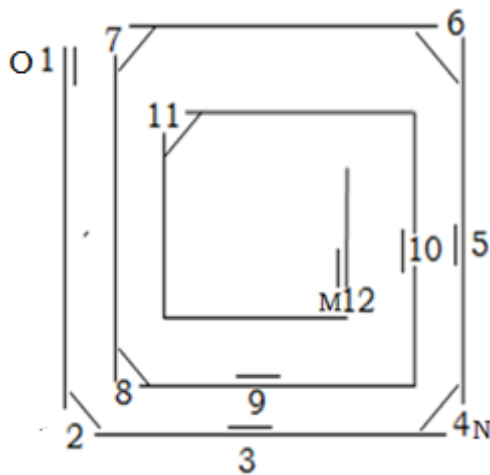
4. U's seat number was one third of the V's seat number.
5. W third to the left of U.

Now two case for U and V

$$U = 1/3 \ V$$
$$3 = 9$$
$$\cancel{2 = 6}$$
$$\cancel{1 = 3}$$

U= 1, 2 not possible because we cannot place W.
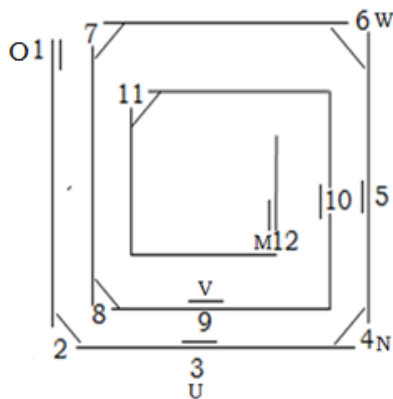
6. Sum of the seat numbers of S and Q was equal to the seat number of T.
7. **T** could not see anybody**.**
8. R was seated 3rd to the left of S.
9. P could see Q and W.
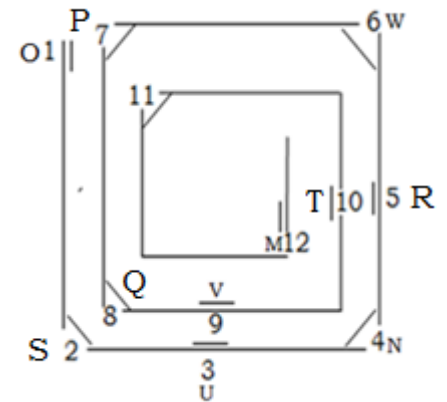
Final Arrangement
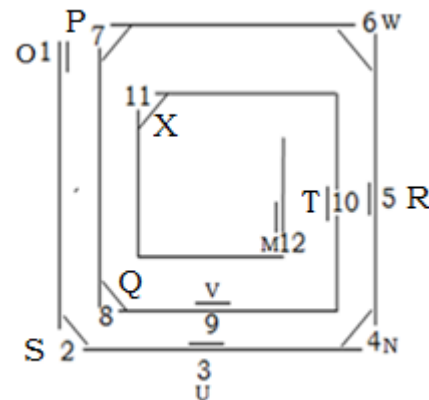
26.A

27.a

28.d

29.E

30.D

Direction (31-35)

Explanation in detail:

The following information is known about their initial arrangement:

1. Q's seat number was one third as that of P's seat number.
2. Q was seated to the immediate right of T.
3. Two persons sitting between U and S whose seat number was an even value.

First we solve the inner Hexagon arrangement

Q = 1/3 P	T	S
1	3	2/4
2	6	1	4

From above table it is clear that 4 is not possible for S because U is not opposite to S. so S = 2, Q = 1, P = 3 and T = 6

Final Inner arrangement is
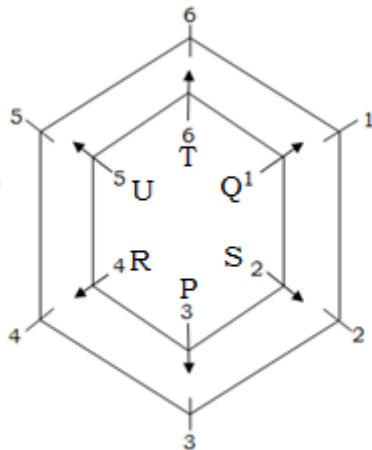
Now we have to move cricketers of inner hexagon as per given condition 1 and 2.

The numbers rolled by them were as follows:

1. P-5
2. Q-3
3. R-6
4. S-1
5. T-2
6. U-4

Each person rolled the dice only once alphabetically i.e. A rolled the dice followed by B and so on. They changed positions as per the number they rolled

If any required position is already taken by another person during the movements, then the person (who was to move) remains at his original position.

Condition for movement

4. The person 1st to roll an even value moved to position 6 of the outer Ground. The person 2nd to roll an even value shifted to his immediate Right. The person 3rd to roll an even value moved to position 4 of the outer Ground.

First we move R then T and then U

Because fist number of even rolled is 6 than 2 and last 4 in alphabetical order.

New arrangement after First movement (Even value)

T have to move at Q's position
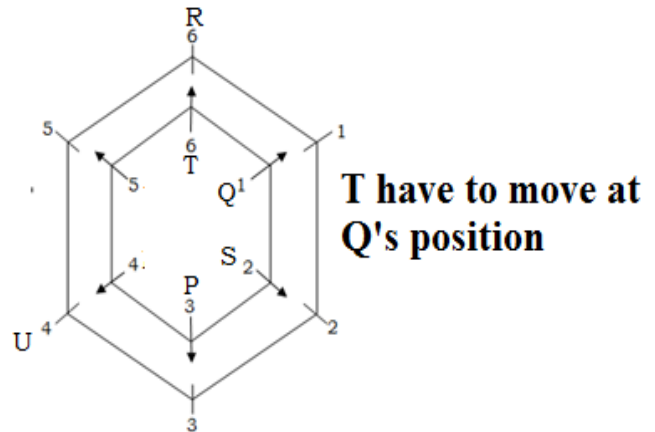
T cannot move from their position as per note is given

5. The person 1st to roll an odd value moved to position 1 of the outer ground. The person 2nd to roll an odd value shifted to his immediate left. The person 3rd to roll an odd value moved to position 3 of the outer ground.

First we move P then Q and then S

Because fist number of Odd rolled is 5 than 3 and last 1 in alphabetical order

New arrangement after Second movement (odd value)
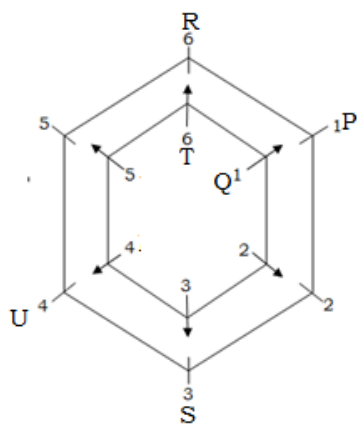
Q have to moves at T's position

Summary table (newly formed by myself)

P=5 (1st odd)	P moves position 1 of outer table
Q=3 (2nd odd)	Q moves to the immediate left
R=6 (1st even)	R moves position 6 of outer table
S=1 (3rd odd)	S moves position 3 of outer table
T=2 (2nd even)	T moves to the immediate right
U=4 (3rd even)	U moves position 4 of outer table

Final Arrangement (figure modified)
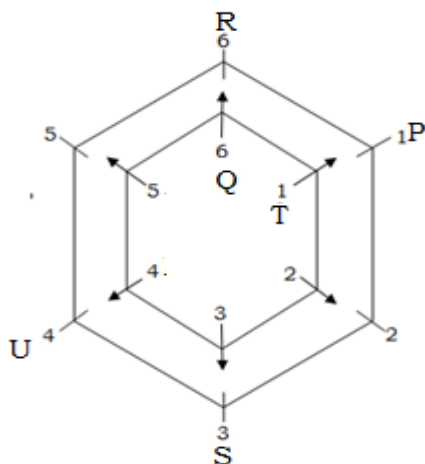
Note: No one remains at original position since the condition is given during movements i.e. during movements no one occupied others place.

31. d

32. A

33. a

34. c

35. b

Direction (36-40)

Explanation in detail

1. T's seat number was twice as that of S's seat number. S was seated along one of the sides

Two CASE for S

T =	2 * S
4	2
8	4

CASE 1
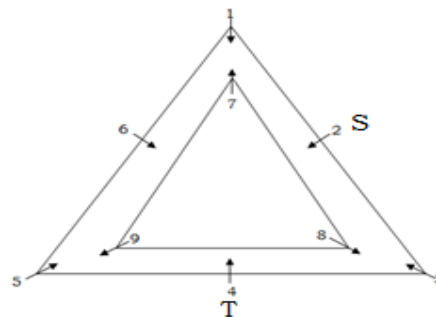
CASE 2
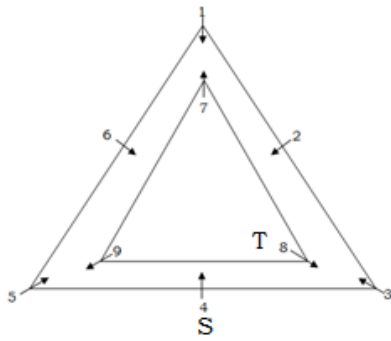
2. P was seated to the Immediate right of the one whose seat number was thrice as that of U's seat number.

CASE1

Person =	3 *U
~~3~~	~~1~~
~~6~~	~~2~~
9	3
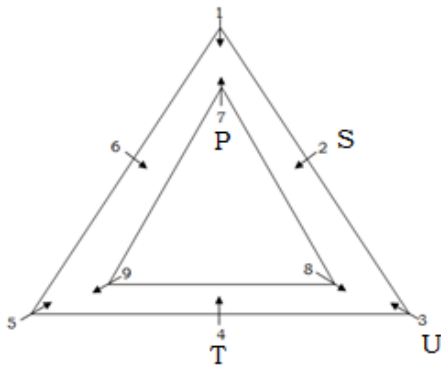
For CASE 2

Person =	3 *U
3	1
~~6~~	~~2~~
9	3

CASE 2a
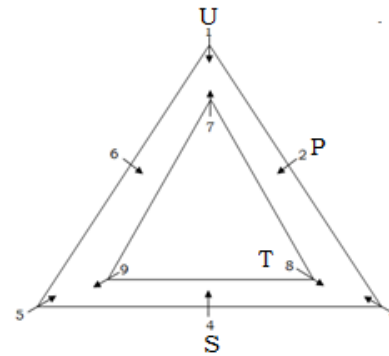
CASE 2b
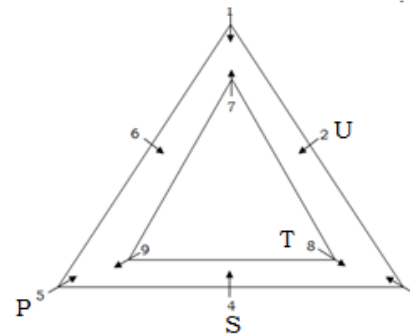
CASE 2c
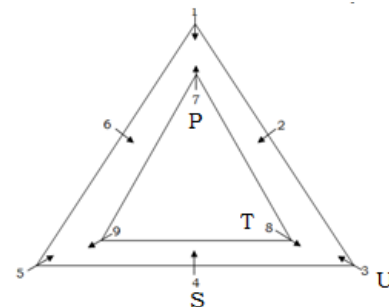
3. R and T were seated at consecutive seat numbers.
4. X's seat number was more than that of Q's seat number.

5. Difference between R's seat number and Q's seat number was 2.

From here Case 1 Eliminated (R=5 so the difference between R and Q is 2 not possible)

CASE 2b Eliminated (R and Q combination are 9 and 7 here difference is 2 but X seat number always less the Q)

CASE 2c eliminated (R=9 so the difference between R and Q is 2 not possible)

CASE 2a   R =7, Q =5 ➔R –Q = 7-5 => 2
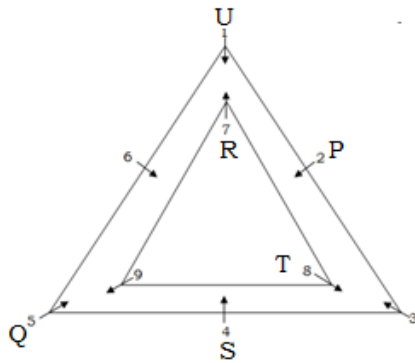
6. W was seated at one of the corners but was not neighboring S
7. X's seat number was more than that of Q's seat number.

CASE 2a
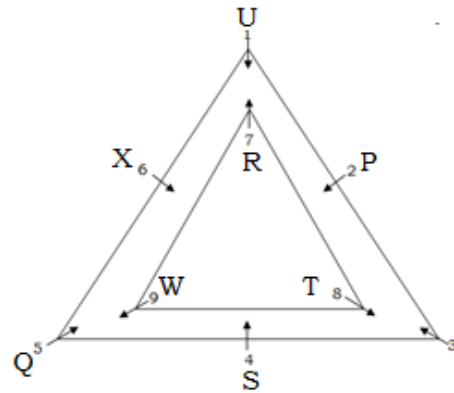
Final Arrangement
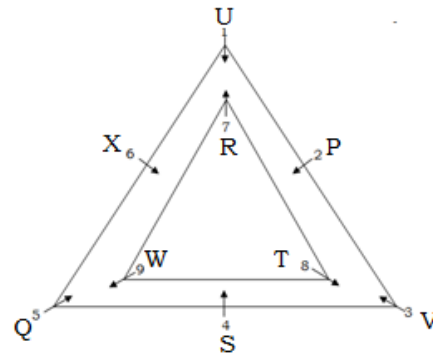
36. a

37. d

38. b

39. c

40. e

Direction (41-45)

Explanation in detail

1. P sits 3rd to the right of the one who sits ahead of E
2. F sits second to the left of E
3. G sits immediate right of E.
4. R sits immediate right of the person, who sits ahead of **F.**
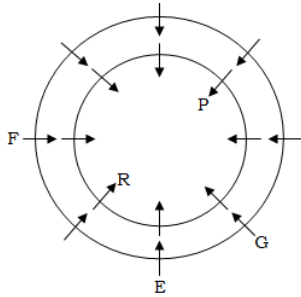
5. H sits behind of O.
6. J sit 2nd to the right of H.

Two cases for H

CASE 1
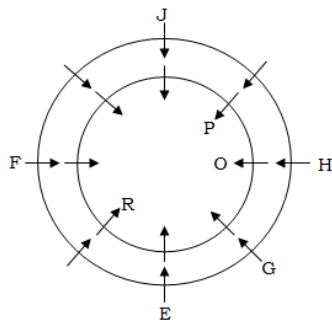
CASE 2
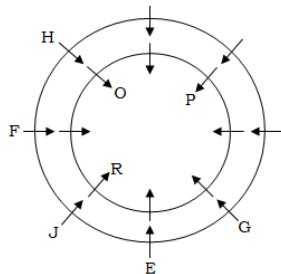
7. L is not an immediate neighbor of J.

8. K sits 2nd to the left of L.
9. Q and S are immediate neighbors of T.

CASE 1
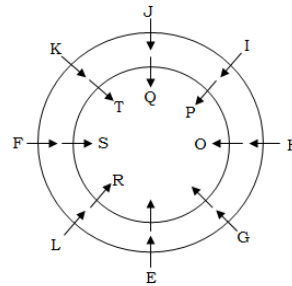
CASE 2
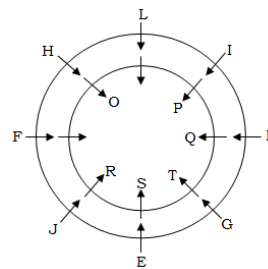
10. M is not an immediate neighbor of O.

CASE 2 was eliminated (M is not an immediate neighbor of O)

CASE 1
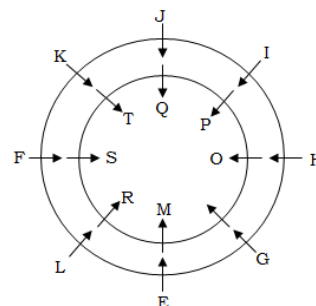
Final Arrangement
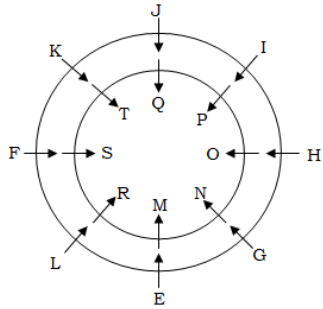
41.b

42. E

43. e

44. b

45. d

Direction (46-50)

Explanation in detail

1. W is sitting third to the left of R.

    Two case for R (either R is in Pentagon or in square).

 CASE 1
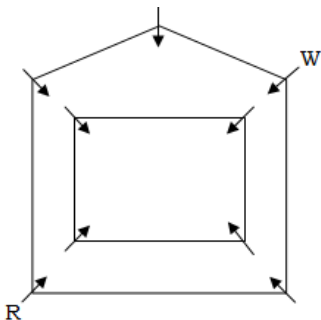
CASE 2
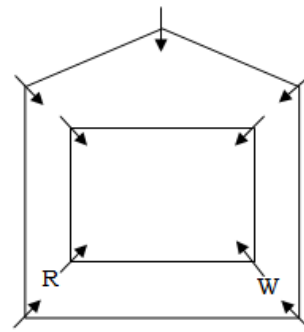
2. X is exactly ahead or behind of R.
3. S is sitting third to the right of X.
4. T is the immediate neighbor of R.

 Now here two case for T in CASE 1

 CASE 1a

CASE 1b

CASE 2

Final Arrangement
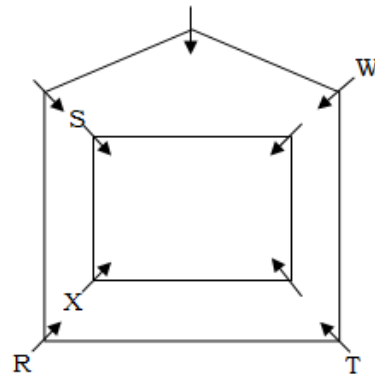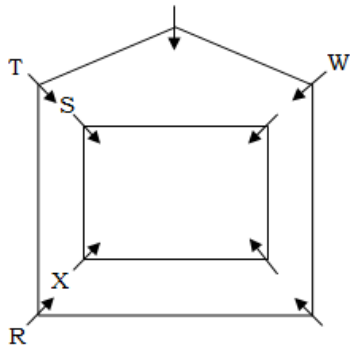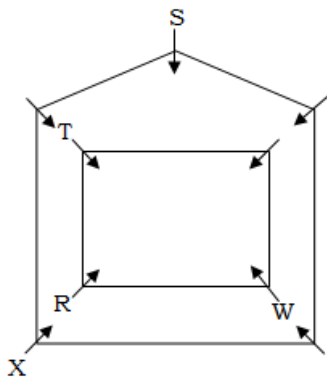
5. P is not the immediate neighbour of U.
6. V sits on the immediate left of Q.
7. U is neither the immediate neighbour of T nor X.

From here Case 1a eliminated (If we fix the position of V and Q then P and U always together which is not possible according to statements given)

Case 2 also eliminated (In this case U is always neighbour of either X or T which is not possible)

CASE 1b
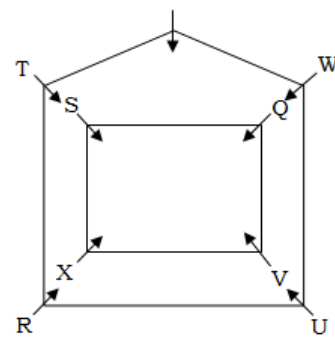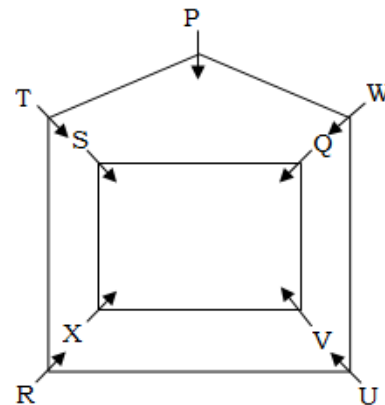
46.c

47.d

48.e

49.a

50.A

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Seating Movement Based

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

Ten persons A, B, C, D, E, F, G, H, I and J are sitting around a rectangular table which consists of 10 seats but not necessarily in the same order. All are facing outside the table. Two person sit at the longer side of the table and one person sit at the shorter side and four persons are sitting at corner of the table. F,, who is sitting at corner is sitting between C and E who is the neighbor of B. J and G are neighbors but none of them is sitting near to B. D is sitting at a gap of three places from I, who sits second to the left of F. A is sitting second to the left of J.

Now they start playing a game where each of them has to choose a ball of different colors i.e. Yellow, Black, White and Green. All of them chooses a ball and changes their places according to the given conditions.

Then they shifted to table in which there are eight vacant seats and the position of vacant seats are numbered from 1 to 8 in clockwise direction.
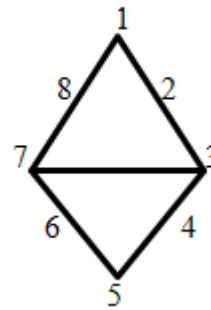
Conditions:

1. The first person who chooses yellow color ball, moves to position 3 while second person moves to position-5, facing the same direction as current direction.

2. If the ball is Black colour, the person who chooses first moves to position 4 while the second person moves to position-6.facing the opposite direction of current direction.

3. If the ball is white colour, the person who chooses first moves to position 1 while the second person moves to position 7 facing the same direction of current direction.

4. If the ball is green colour, the person who chooses first moves to position 2 while second person moves to position 8, facing the opposite direction of current direction.

Chosen:

1. D chooses a ball of green colour.

2. B chooses a ball of green colour.

3. H chooses a ball of yellow colour.

4. A chooses a ball of yellow colour.

5. F chooses a ball of Black colour.

6. G chooses a ball of Black colour.

7. C chooses a ball of white colour.

8. E chooses a ball of white colour.

All the person choose the ball in a same order as given above.

1. After all persons changed their places based on the above conditions, how many persons are sit between C and F?

(a) Two

(b) Four

(c) One

(d) Three

(e) None of these

2. After all persons changed their places based on the above conditions, then who among the following is sitting to the immediate right of D?

(a) B

(b) G

(c) C

(d) H

(e) None of these

3. After all persons changed their places based on the above conditions, then how many persons are facing away from the center?

(p) Two

(q) One

(r) Five

(s) Three

(t) None of these

4. After all persons changed their places based on the above conditions, who sits exactly between the C and E from left of E?

(a) B

(b) D

(c) G

(d) F

(e) None of these

5. Who sits to the immediate right of F in initial condition?

(a) J

A

(b) E

(c) H

(d) None of these

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

There are eight persons Deval, Anurag, Prashant, Hemant, Abhinav, Abhishek, Satyam and Ravi are sitting around a circular table having eight seats. Four of them are facing the center while four are facing opposite to the center.

Anurag sits third to the right of Satyam. Hemant is second to the left of Anurag. Ravi is adjacent to Satyam but not opposite to Anurag. Abhinav and Ravi faces in same direction. Abhinav is immediate left of Hemant but not adjacent to Anurag. Hemant and Abhishek face in same direction. Prashant faces away from the center but does not sit immediate right of Hemant. Abhishek does not sit adjacent to Anurag. Deval and Satyam faces in same direction.

Now they start playing a game where each of them has to choose a box containing different numbered book. It can be an odd or even i.e. 1, 2, 3, 4, 6 and 8. Two separate boxes each containing either a 7-numberd or 10-numbered books were also placed along with these boxes. Prashant chooses a box and changes his place according to the given conditions. Similarly, others choose boxes according to the conditions given below:

Then they shift to square table where there are eight seats and the position of seats are numbered from 1 to 8 in anti-clockwise direction.
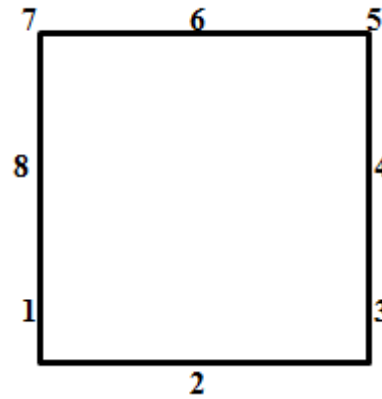
Conditions:

1. If the box containing a 2-numbered book, the person who choses first moves to Position-6 facing same direction of current direction, then the second person who chooses the box containing either 1 or 3-numbered book moves to Position-4, facing the same direction of current direction.

2. If the box containing a 7-numbered book, person remains on the same position facing opposite direction.

3. If the box containing 8-numbered book, the person who choses first moves to Position 5 facing same direction, then the second person, who chooses the box containing 6-numbered moves to Position 3, facing same direction of current direction.

4. If the box containing a 10-numbered book, person remains on the same position facing same direction of current direction.

Chosen:

1. Prashant chooses a box containing an even numbered book other than 4, 6 and 8 and it is also a prime number.

2. Abhinav chooses a box containing 10-numbered book.

3. Abhishek chooses a box containing an even numbered book other than 2, 4 and 6.

4. Hemant chooses a box containing 7-numbered book.

5. Satyam chooses a box containing odd numbered book but less than 5.

6. Anurag chooses a box containing 7-numbered book.

7. Deval chooses a box containing 10-numbered book.

8. Ravi chooses a box containing an even numbered other than 2, 4, 8 and 10.

All the person chooses the boxes in the same sequence as given above.

6. After changing their places based on the above conditions, how many persons are sit in the circular table?

(a) Two

(b) Four

(c) One

(d) Three

(e) None of these

7. After changing their places based on the above conditions, then who among the following is sitting to the immediate right of Deval?

(a) Anurag

(b) Abhinav

(c) Prashant

(d) Hemant

(e) None of these

8. After all persons changed their places based on the above conditions, then how many persons facing away from the center in square table?

(a) Two

(b) One

(c) Five

(d)Three

(e) None of these

9. After changing their places based on the above conditions, who sits second to the right of Satyam?

(a) Abhishek

(b) Ravi

(c) Deval

(d) Prashant

(e) None of these

10. Who sits immediate right of Abhishek in initial condition?

(a) Prashant

Abhinav

(b) Deval

(c) Anurag

(d) None of these

Directions (11-15): Study the information carefully and answer the questions given below.

Eight people – P, Q, R, S, T, U, V and W are sitting around a circular table facing the center, but not necessarily in the same order. All of them have cars of different companies i.e. Ford, TATA, Renault, Maruti, Kia, Toyota, BMW and Audi.

Only one person is sitting between T and the one who has Maruti car. W neither has Toyota nor Maruti car. The one who has a Ford car is sitting exactly opposite to the one who has a BMW car. Two persons are sitting between V and the one who has a Ford car. V does not have a Renault car. Three persons are sitting between Q and the one who has an Audi car. Q neither has Renault nor BMW car. R neither has Maruti nor Audi car. P is sitting third to the left of Q. The one who has TATA car is sitting fifth to the left of W. The one who has a Toyota car is not an immediate neighbour of Q. One person is sitting between R and the one who has a BMW car. The person who has Renault car is sitting third to the right of R. U is sitting fourth to the left of the one who has Renault car.

Each of them rolled a dice only once. After each roll, there were some movements based on certain rules. Then they shifted to a table in which there are eight seats and the position of seats are numbered from 1 to 8 in clockwise direction.
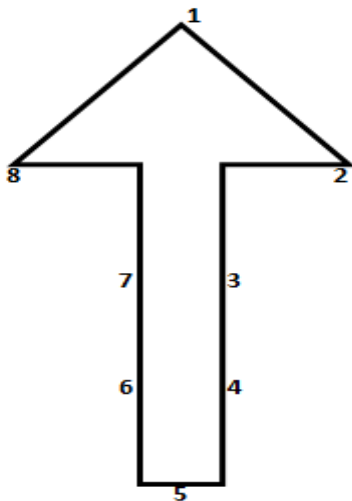
Conditions:

1. If someone rolled a dice and outcome is 4, the person who rolled the dice first moves to position 3, then the second person who gets the same outcome moves to position 7.

2. If someone rolled a dice and outcome is 1, the person who rolled the dice first moves to position 2, then the second person who gets the same outcome moves to position 8.

3. If someone rolled a dice and outcome is 6, the person who rolled the dice first moves to position 1, then the second person who gets the same outcome moves to position 5.

4. If someone rolled a dice and outcome is 3, the person who rolled the dice first moves to position 4, then the second person who gets the same outcome moves to position 6.

Chosen:

1. The person who have Toyota rolled a dice and outcome is 1.

2. The person who have TATA rolled a dice and outcome is 3.

3. The person who have Ford rolled a dice and outcome is 4.

4. The person who have Kia rolled a dice and outcome is 6.

5. The person who have Maruti rolled a dice and outcome is 4.

6. The person who have Renault rolled a dice and outcome is 3.

7. The person who have BMW rolled a dice and outcome is 1.

8. The person who have Audi rolled a dice and outcome is 6.

All the person rolled the dice in the same sequence as given above.

11. After all persons changed their places based on the above conditions, how many persons are sit between W and T from anticlockwise direction of W?

    (a) Two

    (b) Four

    (c) One

    (d) Three

    (e) None of these

12. After changing their places based on the above conditions, then who among the following sits on position-5?

    (a) T

    (b) V

    (c) Q

    (d) P

    (e) None of these

13. In initial arrangement who has Maruti car?

    (a) W

    (b) P

    (c) V

    (d) S

    (e) None of these

14. After all persons changed their places based on the above conditions, who sits on the shortest side of the table?

    (a) T

    (b) Q

    (c) W

    (d) P

    (e) None of these

15. In initial condition R has which of the following car?

    (a) Kia

    (b) Ford

    (c) Toyoto

    (d) Maruti

    (e) None of these

Directions (16-20): Study the following information carefully and answer the givenquestions: Eight people A, B, C, D, E, F, G and H are sitting in a circular table. Some of them are facing center and some of them facing outside the center but not necessarily in the sameorder.

C sits second to the right of F. One person sits between C and D. E sits third to the right of G. E face opposite direction of C. E is not an immediate neighbor of D and F. G sits second to the left of A, who sits second to the right of B. B and A are not immediate neighbors of D. H and D sit immediate right to each other. C faces the same direction as A. E faces the center.

They decided to give test of reasoning subject. They obtain different rank in test. Each person obtain different rank from 1-8 such that A got 1 rank and the rest of the numbers were given to the persons in the clockwise direction from A (in ascending order). Then they shift to linear table in which there are eight seats and all of them are facing north direction.

Conditions:

1. The person who got 6 rank sits third from extreme left end.
2. The person who got 2 rank sits third to the right of D.
3. The person who got 5 rank sits fourth to the left of F.
4. The person who got 3 rank sits at extreme end but not an immediate neighbor of H.
5. The person who got 7 rank sits fourth to the left of B.
6. The person who got 1 rank sits immediate left of F.
7. The person who got 8 rank sits second to the left of D.
8. The person who got 4 rank sits second to the right of A.

All the person got the rank in the same sequence as given above.

16. After all persons changed their places based on the above conditions, who sits fourth to the left of E?

(a) D

(b) F

(c) H

(d) A

(e) None of these

17. After changing their places based on the above conditions, then who got 7th rank?

(a) A

(b) H

(c) C

(d) G

(e) None of these

18. In initial arrangement who among the following faces away from centre?

(a) H

(b) B

(c) F

(d) G

(e) None of these

19. After all persons changed their places based on the above conditions, who among the following sits second from right side of the linear table?

(a) D

(b) G

(c) H

(d) E

(e) None of these

20. After all persons changed their places based on the above conditions, how many persons are sit between G and E?

    (a) Two

    (b) Four

    (c) One

    (d) Three

    (e) None of these

Directions (21-25): Read the following information and answer the questions given:

Eight persons S, T, U, V, W, X, Y and Z - are sitting around a rectangular table in such a way that four of them are sitting at four corners of the table while the other four sit in the middle of the sides. Those who sit in the middle of the sides are facing outside the center while those who sit at the four corners faces towards the center. There are only two persons sit between X and Z. S sits second to the right of X. Z is not an immediate neighbor of S. V sits on the middle side of the table. U sits immediate left to the V. T sits immediate right to the Y. W sits second to the left of T. Y sits one the corner side of the table.

Now they start playing a game where each of them has to choose a ball from a bag full of balls on which different numbers are printed. It can be an odd or an even number i.e. 1, 2, 3, 4, 5, 6, 7 and 9. S chooses a ball and changes his place according to the given conditions. Similarly, others choose balls given in the condition below:

Then they shift to table on which there are eight seats and the position of seats are numbered from 1 to 8 in clockwise direction which is given below:
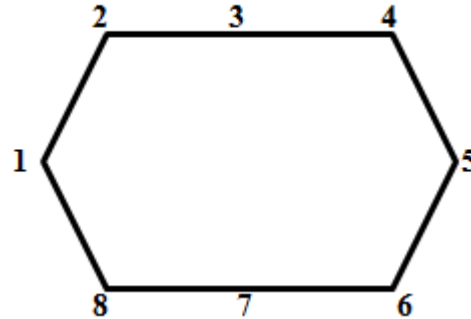
Conditions:

1. If the ball has 2 printed on it, the person who chooses first moves to position 3 facing the opposite direction of current direction.
2. The person who chooses the ball which has either 5 or 9 printed on it then, person moves to position-5 first then to position 7 facing the same direction.
3. If the ball has 7 printed on it, then person moves to position-6 facing the same direction.
4. If the ball has 3 printed on it, the person who chooses first moves to position 4 facing the same direction of current direction.
5. The person who chooses the ball which has 6 printed on it moves to position-2 facing the same direction.
6. The person who chooses the ball which has 1 printed on it moves to position-1 facing the same direction.

7. The person who chooses the ball which has 4 printed on, moves to position-8 facing the same direction.

Chosen:

1. W chooses a ball on which the Even number are printed other than 4 and 6 is printed.

2. X chooses a ball on which 7 is printed.

3. The person immediate right of Y chooses a ball on which 5 are printed.

4. Y chooses a ball on which 3 is printed.

5. Z chooses a ball on which Even number are printed other than 2 and 6 is printed.

6. U chooses a ball on which 1 is printed.

7. V chooses a ball on which Even number are printed other than 2 and 4 is printed.

8. S chooses a ball on which 9 is printed.

All the person chooses the ball in the same sequence as given above.

21. After all persons changed their places based on the above conditions, who sits second to the left of X?

    (a) Y

    (b) V

    (c) W

    (d) Z

    (e) None of these

22. After changing their places based on the above conditions, What is the position of Y with respect to W?

    (a) Fourth to the left

    (b) second to the right

    (c) third to the left

    (d) Immediate left

    (e) None of these

23. In initial arrangement who among the following sits third to the right of X?

    (a) V

    (b) Z

    (c) W

    (d) Y

    (e) None of these

24. After all persons changed their places based on the above conditions, who among the following sits second from right side of the linear table?

    (a) D

    (b) G

    (c) E

    (d) H

    (e) None of these

25. After all persons changed their places based on the above conditions, how many persons are sit between G and E?

    (a) Two

    (b) Four

    (c) One

    (d) Three

    (e) None of these

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

Eight friends – A, B, C, D, E, F, G and H are sitting around a rectangular table, but not necessarily in the same order, five of them are facing outside and sitting adjacent to each other. G does not face outside and sits middle side of the table. B who is facing center is seventh to the left of E. There are four people sitting between G and H and all of them are facing outside. H faces outside the table. D is sitting to the immediate left of C. G and A have one person between them. C is not the immediate neighbour of G and A.

Now they start playing cards game. They shuffled a pack of cards. Then they shifted to table in which there are eight vacant seats and the position of vacant seats are numbered from 1 to 8 in anti-clockwise direction.
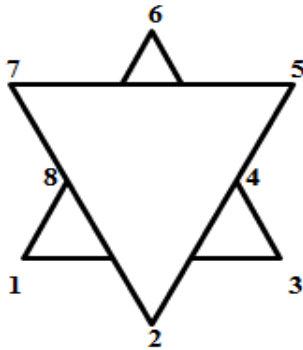
Conditions:

1. If the card drawn is spade, the person who draws first moves to position 5 facing same direction of current direction, then the second person who also draw spade moves to position 8facing same direction of the current direction

2. If card drawn is heart, the person who draws first moves to position 3 facing same direction, then the second person, who also draw heart moves to position 6 facing the same direction

3. If the card drawn is diamond, the person who draws first moves to position 1 facing same direction, then the second person, who also draw diamond moves to position 4 and direction remains the same

4. If the card drawn is club, the person who draws first moves to position 2 facing same direction, then the second person, who also draw club moves to position 7 and direction remains the same.

Draws:

1. B draws queen of Club
2. A draws Jack of Club
3. E draws 2 of Spade
4. C draws 7 of Spade
5. D draws a King of Diamond
6. H draws 8 of Diamond
7. G draws 6 of Heart
8. F draws Ace of Heart

All the person draws the card in the same sequence as given above.

26. After all persons changed their places based on the above conditions, who sits sixth to the left of B?

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

27. After changing their places based on the above conditions, What is the position of G with respect to A?

    (a) Fourth to the left

    (b) second to the right

    (c) third to the left

    (d) Immediate left

    (e) None of these

28. In initial arrangement four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to the group??

    (a) G

    (b) A

    (c) C

    (d) D

    (e) F

29. After all persons changed their places based on the above conditions, who among the following sits second to the right of C?

    (a) B

    (b) G

    (c) H

    (d) F

    (e) None of these

30. After all persons changed their places based on the above conditions, how many persons are sit between D and E?

    (a) Two

    (b) Four

    (c) One

    (d) Three

    (e) None of these

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

There are eight persons Virat, Dhoni, Rohit, Dhawan, Suresh, Mohit, Devang and Hemant are sitting around a circular table having eight seats. All of them are facing the center. Each of them likes different subjects i.e. History, Reasoning, Quant, GA, Computer, English, Economics and Geography but not necessarily in the same order.

Virat sits third to the right of the person who likes Geography. Virat does not like Quant. Suresh is not an immediate neighbour of Hemant. Rohit sits on the immediate right of the person who likes Quant. Neither Virat nor Hemant likes Computer or Reasoning. The person who likes Computer is not an immediate neighbour of the person who likes Geography. The person who likes History sits second to the left of Suresh. The person who likes History is an immediate neighbour of both the persons who like English and Economics. Person who likes Economics sits third to the right of Dhoni. Dhoni does not like Computer. Mohit is not an immediate neighbour of Virat. Devang is not an immediate neighbour of the person who likes History. Only two people sit between the person who likes Geography and Hemant. The persons who like Computer and the Reasoning are immediate neighbours of each other.

Now they start playing a game where each of them has to choose a ball from a bag full of balls on which different

alphabets are printed. It can be a Vowel or a Consonant viz. E, B, G, I, C, O, D and F. Suresh chooses a ball and changes his place according to the given conditions. Similarly others choose balls given in the condition below:

Then they shift to square table in which there are eight vacant seats and the position of vacant seats are numbered from 1 to 8 in anti-clockwise direction.
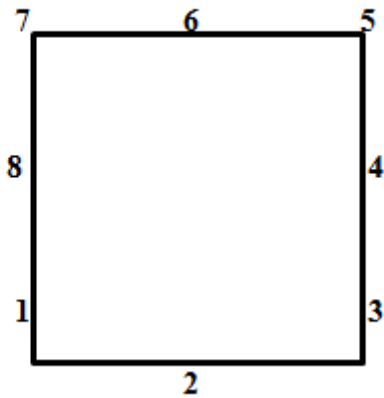
Conditions:

1. If the ball has E printed on it, the person who chooses first moves to position 3 facing the opposite direction of current direction and the person who chooses the ball which has either G or D printed on it moves to position-5 first then to position 7 facing the same direction.

2. If the ball has F printed on it, the person remains on the same position facing opposite direction.

3. If the ball has C printed on it, the person who chooses first moves to position 4 facing the same direction of current direction, then the second person who chooses the ball which has O printed on it moves to position-2 facing

the same direction, then the person who chooses the ball which has B printed on it moves to position-1 facing the same direction.

4. If the box contains I, person remains on the same position facing same direction of current direction.

Chosen:

1. The person who likes Quant chooses a ball on which the vowel other than O and I is printed.

2. Dhoni chooses a ball on which F is printed.

3. The person immediate right of Virat chooses a ball on which the consonant other than B, C and F is printed.

4. Rohit chooses a ball on which C is printed.

5. The person who likes History chooses a ball on which the vowel other than E and O is printed.

6. Virat chooses a ball on which F is printed.

7. Mohit chooses a ball on which the vowel other than E and I is printed.

8. The person who likes Computer chooses a ball on which D is printed.

All the person chooses the balls in the same sequence as given above.

31. After all persons changed their places based on the above conditions, who sits on the position-7 on square table?

      (a) Devang

      (b) Mohit

      (c) Suresh

      (d) Rohit

      (e) None of these

32. After changing their places based on the above conditions, what is the position of Mohit with respect to who likes Quant?

(a) Fourth to the left

(b) second to the right

(c) third to the left

(d) Immediate right

(e) None of these

33. In initial arrangement who among the following sits second to the right of who likes GA?

(a) Hemant

(b) Rohit

(c) Dhoni

(d) Dhawan

(e) None of these

34. After all persons changed their places based on the above conditions, who among the following sits third to left of Dhawan?

(a) Devang

(b) Hemant

(c) Suresh

(d) Mohit

(e) None of these

35. After all persons changed their places based on the above conditions, who sits in the circular table?

(a) Dhoni

(b) Rohit

(c) Mohit

(d) Devang

(e) None of these

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

Eight persons J, K, L, M, N, O, P and Q are seating in a row, some are facing north and some are facing south but not necessarily in the same order. J sits second to the left of L. O sits second to the right of J. No one sits to the left of O. As many persons sit to the right of J as sit to the left of K. Q doesn't face south. N sits second to the left of the one who sits third to the right of P. Q is not an immediate neighbour of P. N and M face opposite direction with respect to each other. M face same direction as Q faces.

Now they start playing cards game. They shuffled a pack of cards. Then they shift to table in which there are eight seats and the position of seats are numbered from 1 to 8 in clockwise direction.
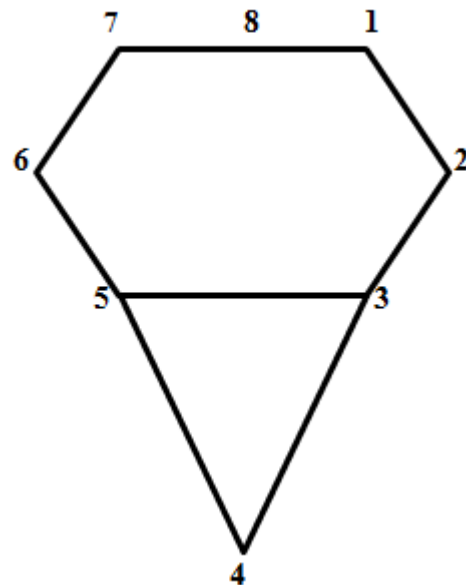
1. If card drawn is queen of spade, the person who draws moves to position 3.

2. If card drawn is queen of diamond, the person who draws moves to position 7.

3. If card drawn is queen of club, the person who draws moves to position 5.

4. If card drawn is queen of Heart, the person who draws moves to position 4.

5. If card drawn is king of Spade, the person who draws moves to position 1.

6. If card drawn is king of Diamond, the person who draws moves to position 8.

7. If card drawn is king of Club, the person who draws moves to position 6.

8. If card drawn is king of Heart, the person who draws moves to position 2.

Draws:

1. K draws queen of Club

2. J draws king of Club

3. N draws queen of Spade

4. L draws king of Spade

5. M draws King of Diamond

6. Q draws queen of Diamond

7. P draws king of Heart

8. O draws queen of Heart

All the person draws the card in the same sequence as given above.

36. After all persons changed their places based on the above conditions, how many persons sit between Q and N?

    (a) One

    (b) Two

    (c) Three

    (d) Four

    (e) None of these

37. After changing their places based on the above conditions, who sits two place away from P in clockwise direction?

    (a) J

    (b) Q

    (c) L

    (d) O

    (e) None of these

38. In initial arrangement who among the following sits second to the left of Q?

    (a) N

    (b) L

    (c) J

    (d) M

    (e) None of these

39. After all persons changed their places based on the above conditions, who among the following sits immediate next to N?

    (a) M, P

    (b) L, M

    (c) J, K

(d) O, P

(e) None of these

40. After all persons changed their places based on the above conditions, who sits on the position-5 on table?

(a) K

(b) M

(c) J

(d) Q

(e) None of these

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

There are eight friends Ankit, Ravi, Rajan, Rahul, Piyush, Satyam, Sanjay and Kartik are sitting around a circular table on which some facing towards the center and some are facing outside the center but not necessarily in the same order. Ankit sits second to left of Rajan and Piyush sits third to right of Ankit. only three persons are sitting between Piyush and Ravi. Piyush facing opposite direction as Kartik. Kartik sits immediate right of Rajan. Rahul sits second to right of Satyam who sits third to the left of Kartik. Ankit and Rajan are facing opposite direction. Rajan sits third to right of Sanjay and both facing same direction. Rahul and Ravi are facing same direction as facing Satyam. Piyush facing inside the circle. Now they start playing cards game. They shuffled a pack of cards. Then they shift to square table in which there are eight seats and the position of seats are numbered from 1 to 8 in anti-clockwise direction.
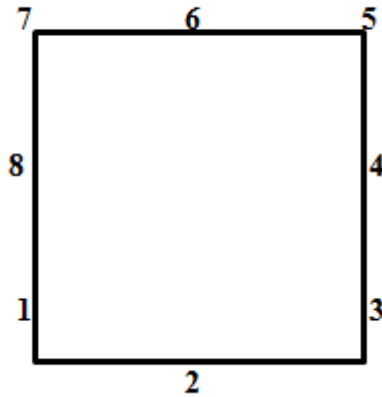
Conditions:

1. If the card drawn is spade, the person who draws first moves to position 5 facing opposite direction of current direction, then the second person who also draw spade moves to position 6, similarly 7 and 8.

2. If card drawn is heart, person remains on the same position facing same direction.

3. If the card drawn is diamond, the person who draws first moves to Position 1 facing same direction, then the second person, who also draw diamond moves to Position 2, similarly Position 3.

4. If card drawn is club, person remains on the same position facing opposite direction of current direction.

Draws:

1. Ravi draws queen of Club

2. Ankit draws Jack of Club

3. Piyush draws 3 of Spade

4. Rahul draws a King of Diamond

5. Satyam draws Ace of Heart

6. Sanjay draws 9 of Heart

7. Kartik draws 7 of Diamond

8. Rajan draws 4 of Spade

All the person chooses the card in the same squence as given above.

41. After all persons changed their places based on the above conditions, how many persons are remains in the circle?

    (a) Two

    (b) Four

    (c) One

    (d) Three

    (e) None of these

42. After all persons changed their places based on the above conditions, then who among the following is sitting to the immediate right of Satyam?

    (a) Sanjay

    (b) Rajan

    (c) No One

    (d) Piyush

    (e) None of these

43. After all persons changed their places based on the above conditions, then how many persons facing away from the center?

    (a)Two

    (b) One

    (c) Five

    (d) Three

    (e) None of these

44. After all persons changed their places based on the above conditions, who among the following is sitting at the Position 2 of the square?

    (a) Ravi

    (b) Satyam

    (c) Sanjay

    (d) Kartik

    (e) None of these

45. After all persons changed their places based on the above conditions, then who among the following is sitting to the immediate left of Piyush?

    (a) Sanjay

    Rajan

    (b) Rajan

    (c) Piyush

    (d) None of these

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

There are eight persons P, Q, R, S, T, U, V and W are sitting around a circular table four of them are facing the center and other four are facing away from the center. They are working in different banks i.e. BOB, Canara bank, Axis bank, Hdfc bank, SBI, ICICI bank, Syndicate bank and PNB bank but not necessarily in the same order. T is sitting between the person who works in Axis bank and the one who works in PNB bank. U faces the center and sits third to the right of R. The person who works in Hdfc and SBI banks are facing same direction. S works in Axis bank and faces the person who works in ICICI bank.

V sits third to the right of Q, who works in BOB bank. P works in in SBI and R works in Canara bank. The person who works in Syndicate bank is facing outside the center and an immediate neighbor of who works in PNB bank. W is an immediate neighbor of the person who works in SBI and Syndicate bank. T sits to immediate left of S.

Now they start playing cards game. They shuffled a pack of cards. Then they shift to table in which there are eight seats and the position of seats are numbered from 1 to 8 in anticlockwise direction.
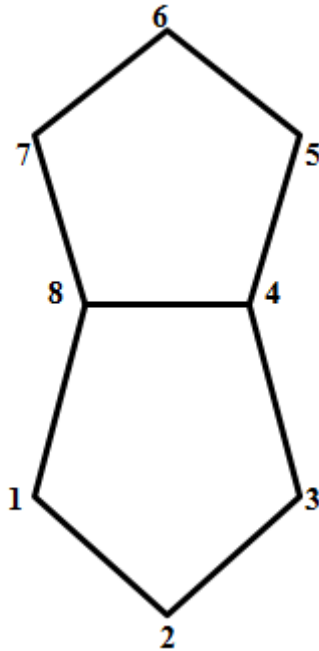
Conditions:

1. If the card drawn is spade, the person who draws first moves to position 3, then the second person who also draw spade moves to position 6.

2. If the card drawn is heart, the person who draws first moves to position 2, then the second person who also draw heart moves to position 4.

3. If the card drawn is diamond, the person who draws first moves to position 1, then the second person who also draw diamond moves to position 5.

4. If the card drawn is Club, the person who draws first moves to position 7, then the second person who also draw Club moves to position 8.

Draws:

1. P draws ace of Club
2. R draws king of Spade.
3. S draws ace of Diamond
4. T draws queen of Heart
5. V draws king of Diamond
6. W draws queen of Spade
7. Q draws ace of Club
8. U draws king of Heart

All the person chooses the card in the same sequence as given above.

46. After all persons changed their places based on the above conditions, how many persons sit between W and T?

(a) Two

(b) Four

(c) One

(d) Three

(e) None of these

47. In initial arrangement who among the following sits second to the right of who works in HDFC bank?

    (a) T

    (b) W

    (c) V

    (d) S

    (e) None of these

48. After all persons changed their places based on the above conditions, then how many persons sit between S and V?

    (a) Three

    (b) One

    (c) Five

    (d) Two

    (e) None of these

49. In initial arrangement who among the following sits opposite to the one who works in ICICI?

    (a) T

    (b) V

    (c) W

    (d) S

    (e) None of these

50. After all persons changed their places based on the above conditions, then who among the following sits on position-7?
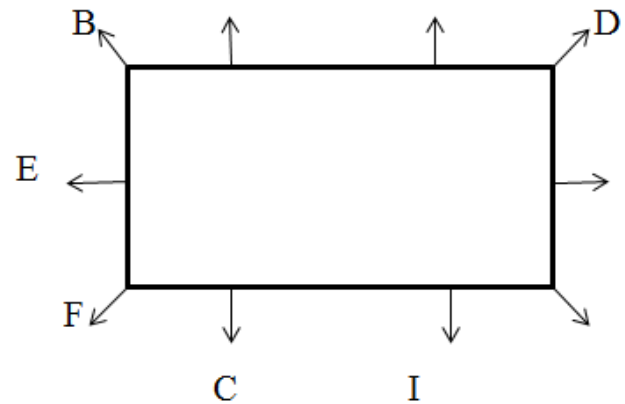
    (a) T

    (b) Q

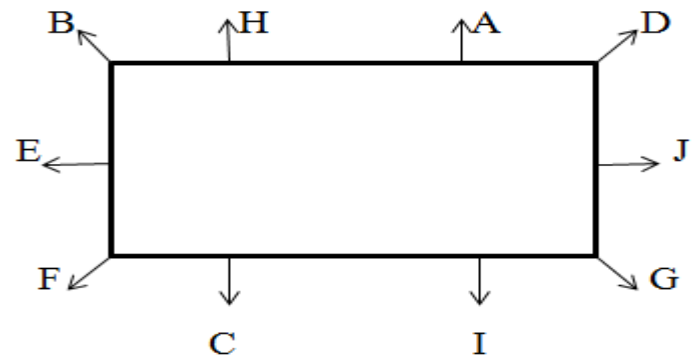   **(c) P**

    (d) W

    (e) None of these

SOLUTION (1-5):

Explanation in detail:

1. F, who is sitting at corner is sitting between C and E.
2. E is the neighbor of B.
3. D is sitting at a gap of three places from I.
4. I sits second to the left of F.

5. A is sitting second to the left of J.
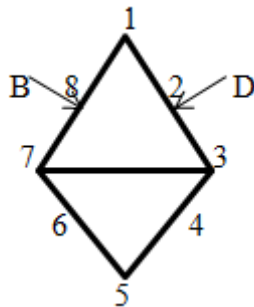6. J and G are neighbours but none of them is sitting near B.

Movement based on following conditions:

1. D chooses a ball of green colour.
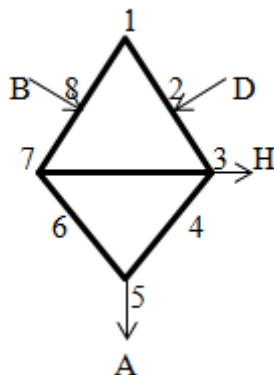
2. B chooses a ball of green colour.

If the ball is green colour, the person who chooses first moves to position 2 facing the opposite direction of current direction, then the second person who chooses the moves to position-8 first.

3. H chooses a ball of yellow colour.
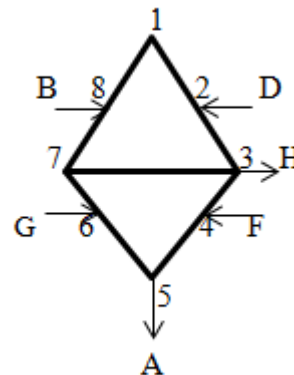4. A chooses a ball of yellow colour.

If the ball is yellow colour the person who chooses first moves to position 3 facing the same direction of current direction, then the second person who chooses the moves to position-5.

5. F chooses a ball of Black colour.
6. G chooses a ball of Black colour.

If the ball is Black colour, the person who chooses first moves to position 4 facing the opposite direction of current direction, then the second person who chooses the moves to position-6.

7. C chooses a ball of white colour.
8. E chooses a ball of white colour.

If the ball is white colour, the person who chooses first moves to position 1 facing the same direction of current direction, then the second person who chooses the moves to position-7.
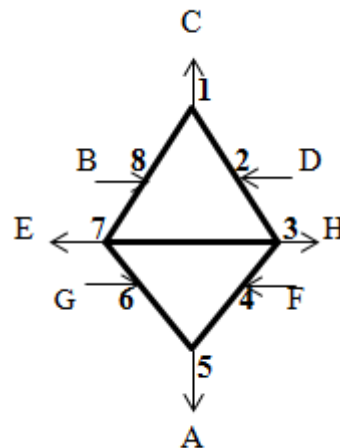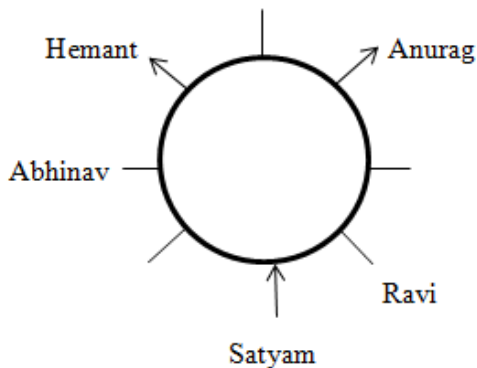
1. d
2. c
3. e
4. d
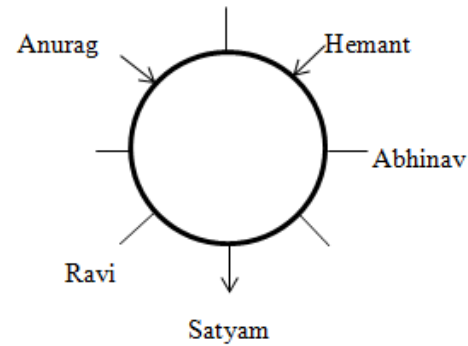5. c

SOLUTION (6-10):

Explanation in detail:

1. Anurag sits third to the right of Satyam.

2. Ravi is adjacent to Satyam but not opposite to Anurag.

3. Hemant is second to the left of Anurag.

4. Abhinav is immediate left of Hemant but not adjacent to Anurag.

5. Hemant and Abhishek faces in same direction.

CASE1:

CASE2:

6. Abhinav and Ravi faces in same direction.

7. Prashant faces away from the centre but does not sit immediate right of Hemant.

8. Abhishek does not sit adjacent to Anurag.

9. Deval and Satyam faces in same direction.

10. Hemant and Abhishek faces in same direction.

CASE1: