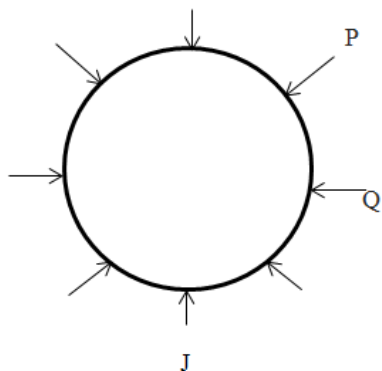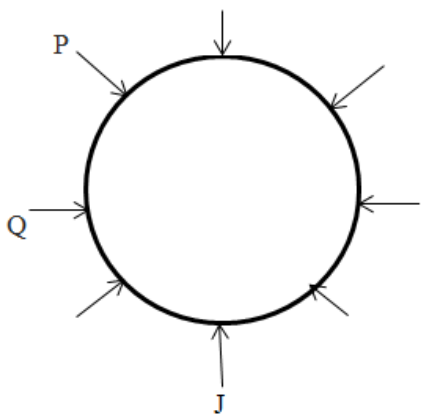**5. D**

SOLUTION (6-10):

Explanation in detail:

1. There are only two persons sit between J and P.
2. There is only one person sit between J and Q.
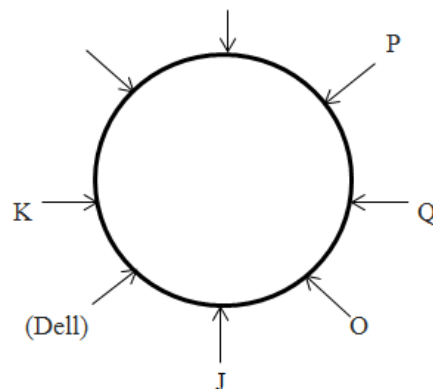3. Q is sitting next to P.

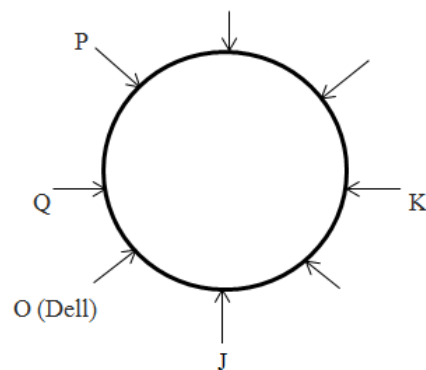**CASE1:**

CASE2:

4. The one who is working in Dell sits immediate left of J.
5. Only one person sit between K and J.

6. O sits at a gap of two seats to K.
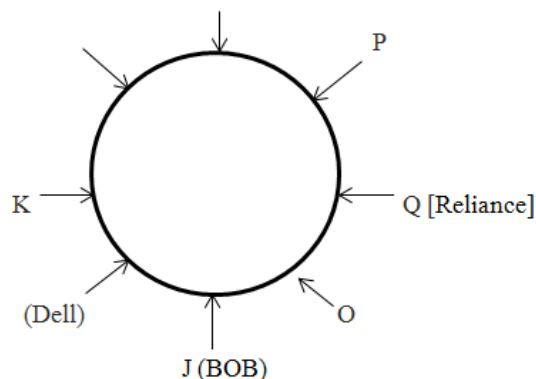
CASE1:

CASE2:

7. The one who has account in BOB sits second to the right of K.
8. There is three person sit between K and the one who is working in Reliance.

CASE1:
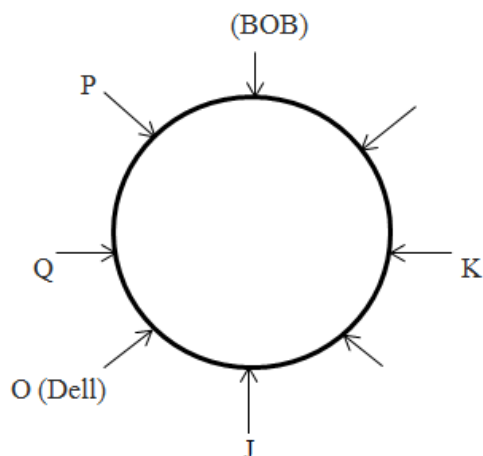
CASE2:

CASE1:

CASE2:

9. There is three person sit between O and N, whose salary account in PNB.

10. N is working in Google.

11. M is not an immediate neighbour of the person who is third to the left of J.

12. L has salary account in Hdfc.

So CASE2 is cancelled out.
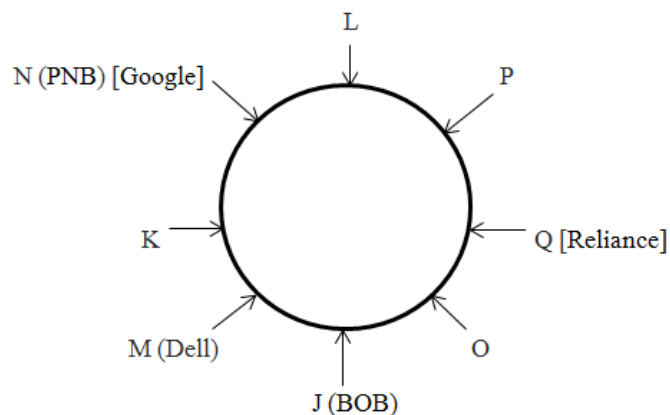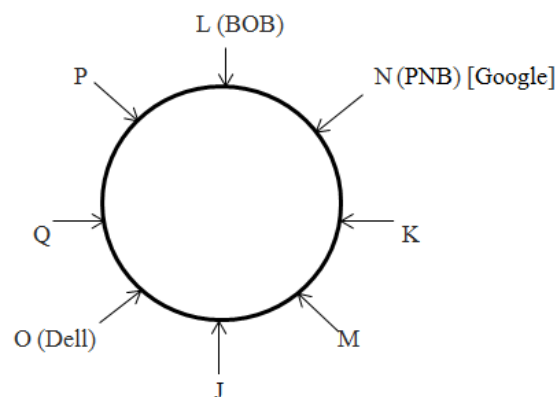
13. The one who has account in BOM is working in Intel.

14. The one whose account in BOM sits second to the right of L.

CASE1:
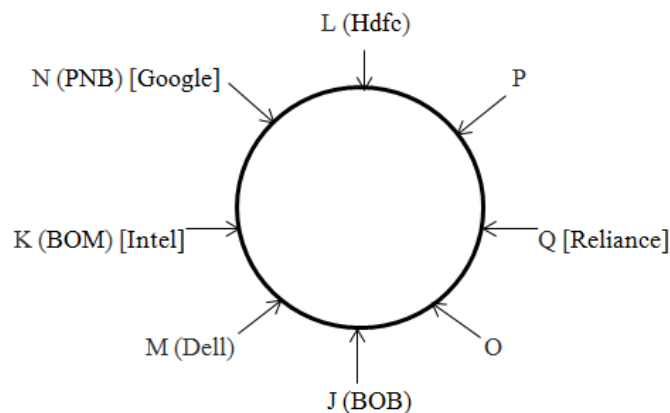
15. There are two persons sit between whose account in Axis and M.

16. The one who is working in L&T sits opposite to N and has account in SBI.

17. The one whose account in OBC sits opposite to one whose account in UBI.

18. The one who is working in Dell has not account in OBC.

19. The one who is working in Samsung sits immediate right to the one who is working in Walmart.

CASE1:
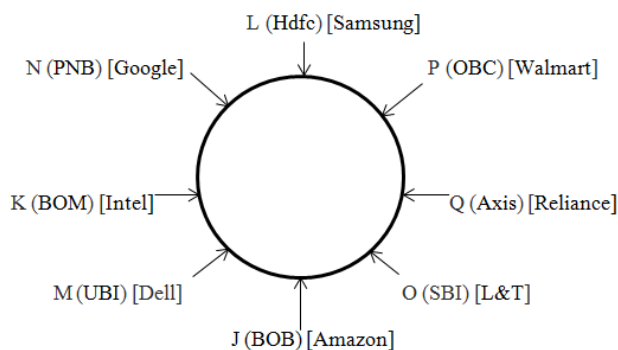
Final arrangement:
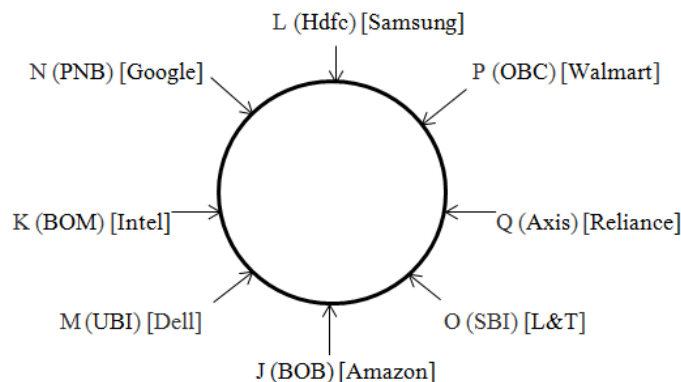
6.d

7.b

8.a

9.c

10.c

SOLUTION (11-15):

Explanation in detail:

1. D who is facing towards the centre is sitting second to the left of G.

2. C is sitting adjacent to both G and D and F is sitting fourth to the right of C.

3. G is facing outwards and uses Train.

4. The one who will attend on 2nd is sitting second to the right of D who will attend on 8th and D uses Scooter.

5. E who will attend on 3rd is sitting third to the right of C.

E [3rd]

F

G (Train)←

[2nd]

C

D (Scooter) [8th]
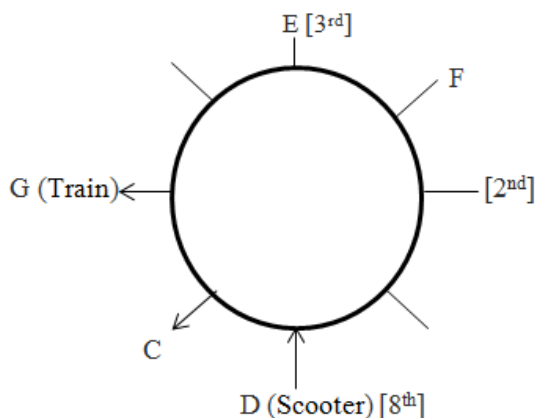
6. B uses Car and sitting adjacent to F who will attend on 7th.

7. Both B and F are facing towards the centre.

E [3rd]

F [7th]

G (Train)←

← B (Car) [2nd]

C

D (Scooter) [8th]

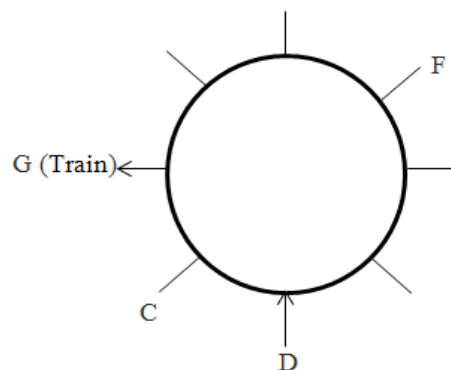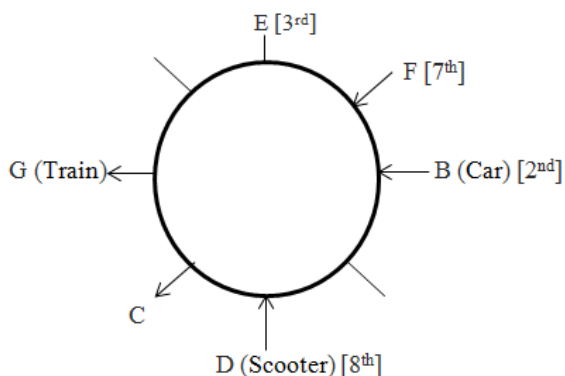8. H faces the same direction as C and he is not the neighbour of G.

9. C is not will attend on 1st and he uses Truck.

10. G will attend on 4th.

E [3rd]

A

F [7th]

G (Train) [4th]←

← B (Car) [2nd]

C (Truck)

H

D (Scooter) [8th]
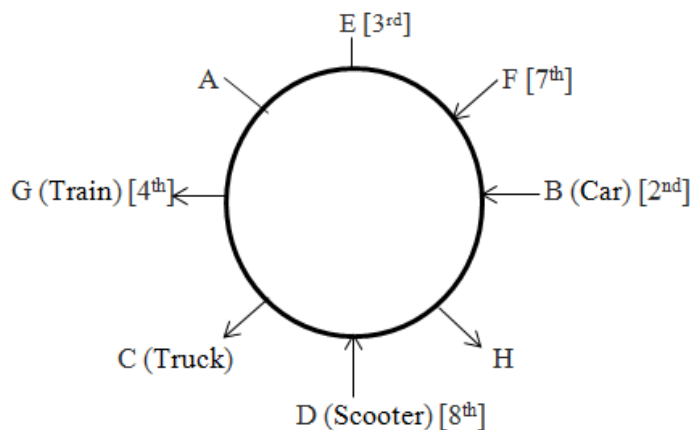
11. The one who will attend on 1st uses Auto.

12. The one who will attend on 6th and uses Cycle is sitting to the immediate left of the person who uses Boat.

E (Boat) [3rd]

A (Cycle) [6th]

F (Motorcycle) [7th]

G (Train) [4th]←

← B (Car) [2nd]

C (Truck) [5th]

H (Auto) [1st]

D (Scooter) [8th]

Final arrangement:

E (Boat) [3rd]
A (Cycle) [6th]
F (Motorcycle) [7th]
G (Train) [4th]
B (Car) [2nd]
C (Truck) [5th]
H (Auto) [1st]
D (Scooter) [8th]
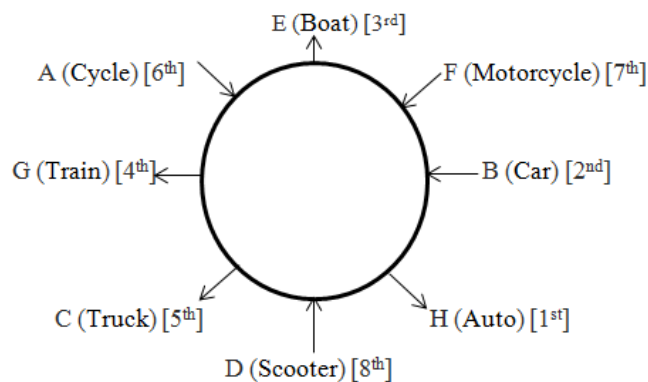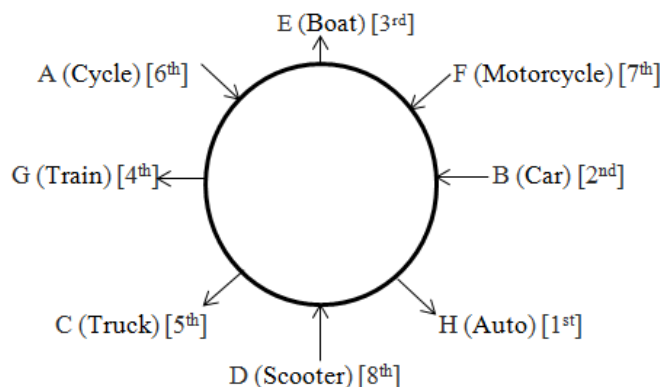
11.b

12.d

13.a

14.c

15.c

SOLUTION (16-20):

Explanation in detail:

1. The adjacent members do not face the same direction.

2. The person who obtained 40 marks gives Reasoning test and is sitting third to the right of C.

CASE1:

(40) [Reasoning]

C

CASE2:

(40) [Reasoning]

C
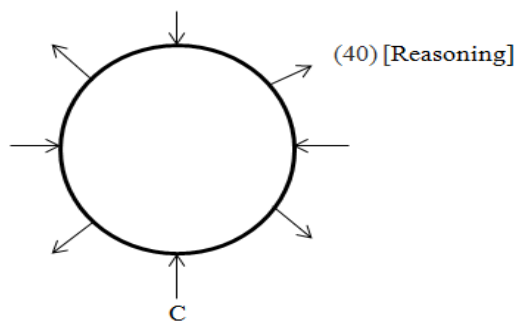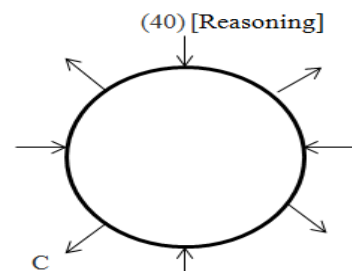
3. The person who gives Politics test obtained 42 marks and sits opposite A, who obtained 40 marks.

4. B and C are the neighbours of H.

5. B obtained 35 marks and is facing towards the center.

B is facing to centre so CASE2 is cancelled out.

CASE1a:
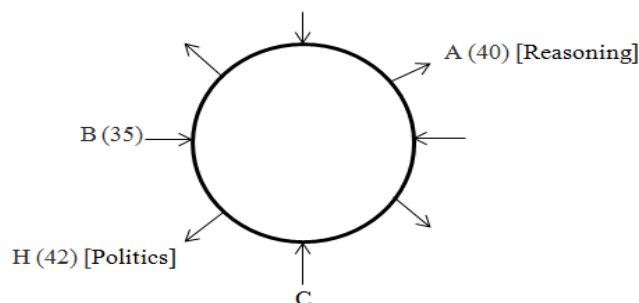
CASE1b:
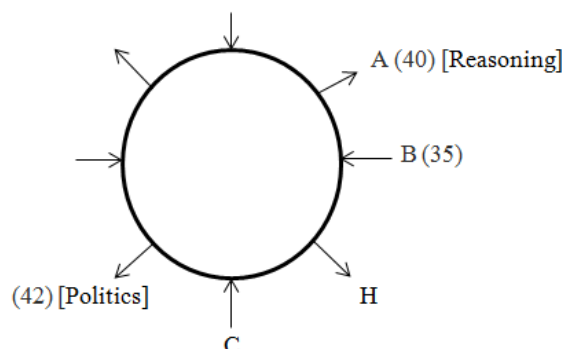
6. The person who obtained 38 marks is sitting opposite to the person who gives English test.
7. E who obtained marks only more than two friend is sitting second to the left of B and gives History test.

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

CASE1a:
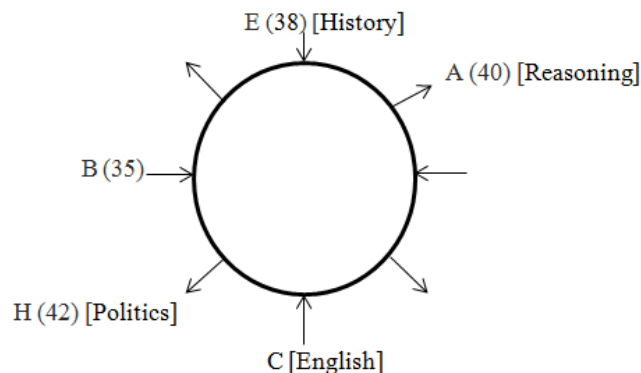
8. The persons who gives Quant and GA are sitting opposite to each other.
9. D who obtained 36 marks gives Economics test and he is an immediate neighbour of A.
10. F who gives GA test does not sit adjacent to both B and E and he does not obtained highest mark.
11. The person who gives Quant test obtained 45 marks.
12. . The one who has given English test obtained more marks than the one, who has given GA test.

CASE1a:
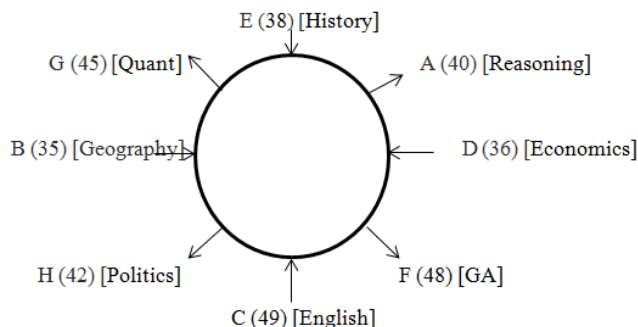
Final arrangement:
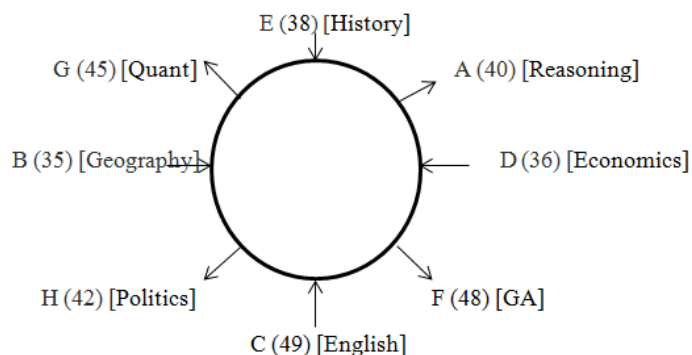
16. a

17. e

18. b

19. d

20. c

SOLUTION (21-25):

Explanation in detail:

1. C is second to the right of the person who purchased Mediker whose price is Rs 69 which is third lowest price among six sanitizer.

2. C sits immediate left of the person who purchased Dabur and C purchased at Rs 70.
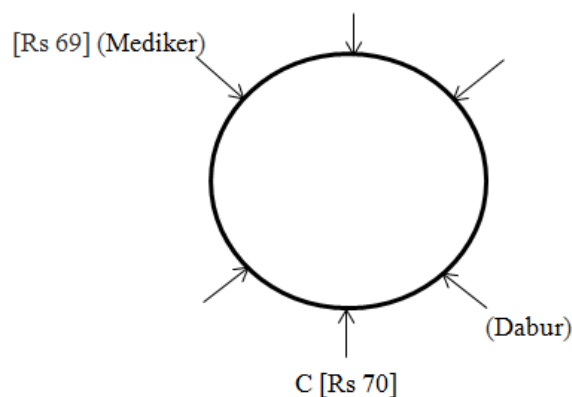
3. Lowest price of sanitizer among six is Rs 64.

4. A sits immediate left to the person who sits opposite to who purchased Dabur, who does not next to F.

CASE1:
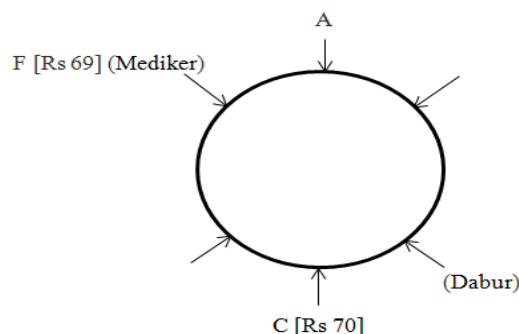
CASE2:
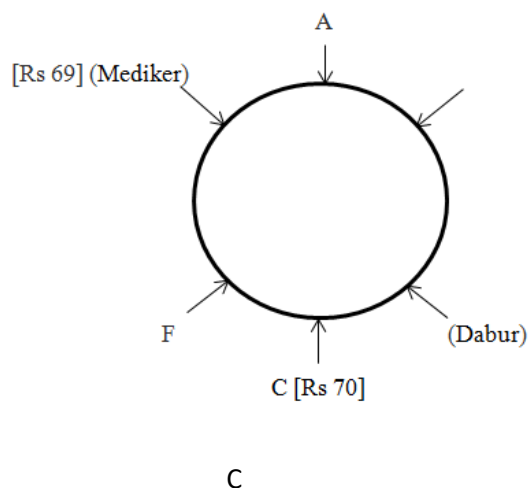
Rs 70   Rs 69   Rs 64

5. One of the friends purchased sanitizer at that price which is prime number.

6. B purchased sanitizer at the second highest price but did not purchased Ozone.

7. B sits second to the left of the person who purchased at Rs 74.

8. D sits opposite to who purchased Ozone.

9. D does not sit immediate to B.

CASE1:
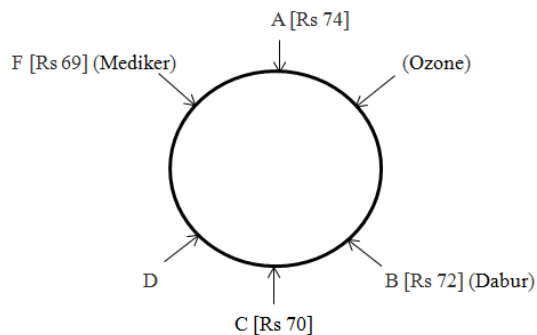
CASE2:
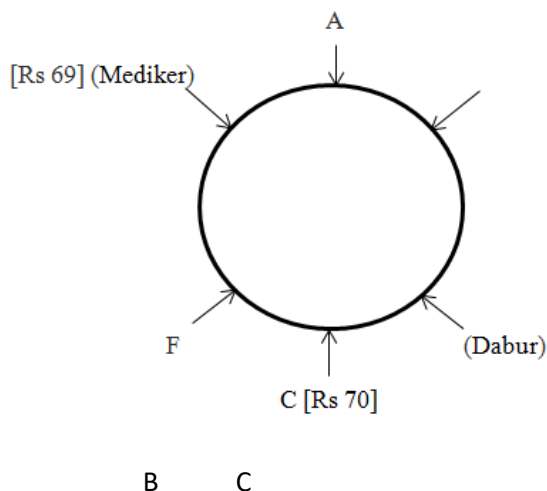
Mediker

Rs 74   Rs 72   Rs 70   Rs 69   Rs 67   Rs 64

There is no such space for D and Ozone in CASE2 so CASE2 is cancelled out.

10. The person who purchased Lifebuoy sits second to the left of who purchased at Rs 72.

CASE1:
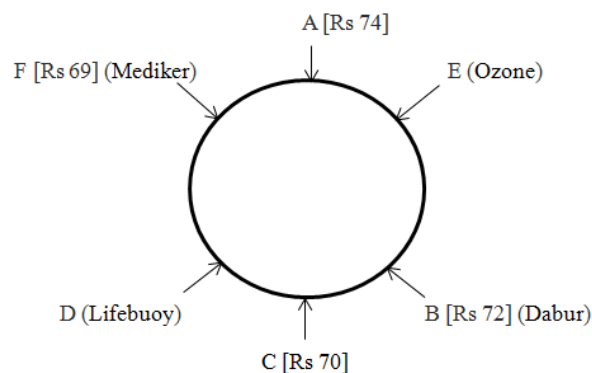
A   B   C   F

Mediker

Rs 74   Rs 72   Rs 70   Rs 69   Rs 67   Rs 64

11. E did not purchased at lowest price.

12. The person who purchased Himalya did not purchased at highest price.

CASE1:

A [Rs 74] (Jaiwik)
F [Rs 69] (Mediker) — E [Rs 67] (Ozone)
D [Rs 64] (Lifebuoy) — B [Rs 72] (Dabur)
C [Rs 70] (Himalya)
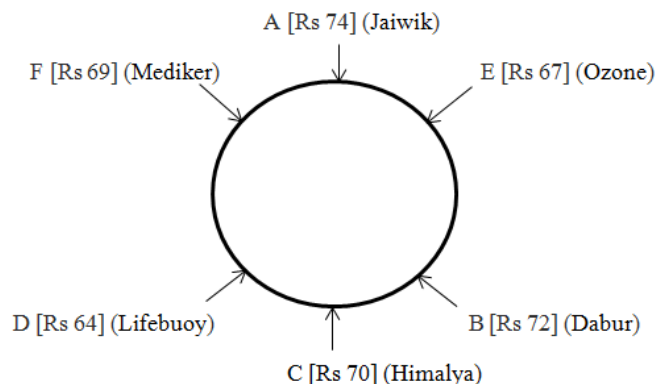
A	B	C	F	E	D
Jaiwik	Dabur	Himalya	Mediker	Ozone	Lifebuoy
Rs 74	Rs 72	Rs 70	Rs 69	Rs 67	Rs 64

Final arrangement:

A [Rs 74] (Jaiwik)
F [Rs 69] (Mediker) — E [Rs 67] (Ozone)
D [Rs 64] (Lifebuoy) — B [Rs 72] (Dabur)
C [Rs 70] (Himalya)
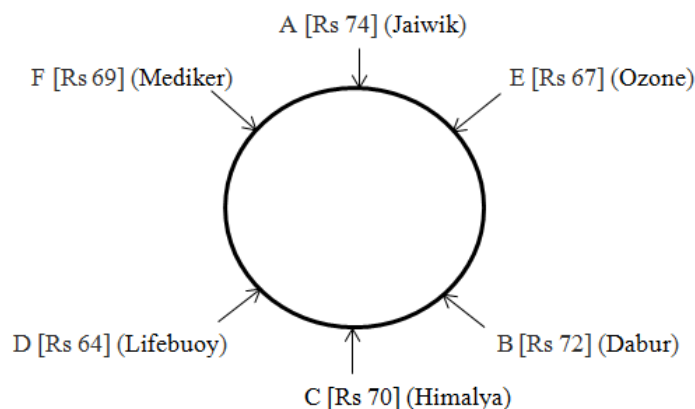
21. e
22. c
23. a
24. d
25. b

SOLUTION (26-30):

Explanation in detail:

1. E work at Gurugram and its opposite to the person who works at Laxmi nagar.
2. F who doesnot works at GTB nagar, but sits to the immediate left of E.
3. F is sitting adjacent to the person who works at Gurugram and Rajiv chowk.
4. The person who works at GTB nagar is facing outside and immediate neighbor of who works at Rajiv chowk.

CASE1:

[Laxmi nagar]
[GTB nagar]
[Rajivchowk]
F
E [Gurugram]

CASE2:

[Laxmi nagar]
[GTB nagar]
[Rajivchowk]
F
E [Gurugram]
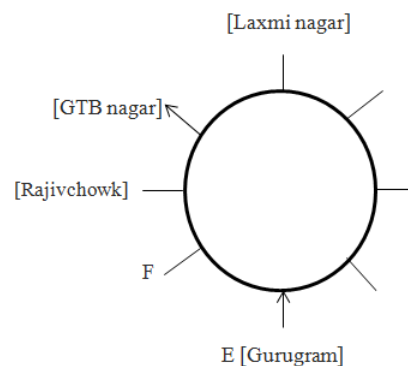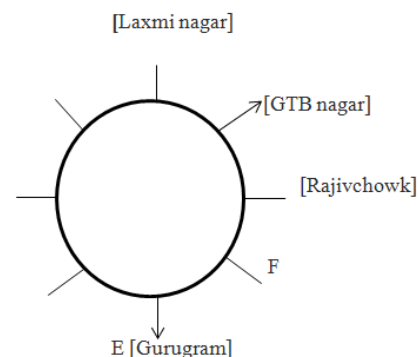
5. H is immediate neighbor of the person who works at Ashok nagar and GTB nagar.

6. B works at Ashok nagar.

7. A, who works in BOB but not at Rajiv chowk and sits third to the right of C, who works at Noida

8. D works at Saket.

9. G faces the centre and sits third to the right of D, who works in BOM.

CASE1:
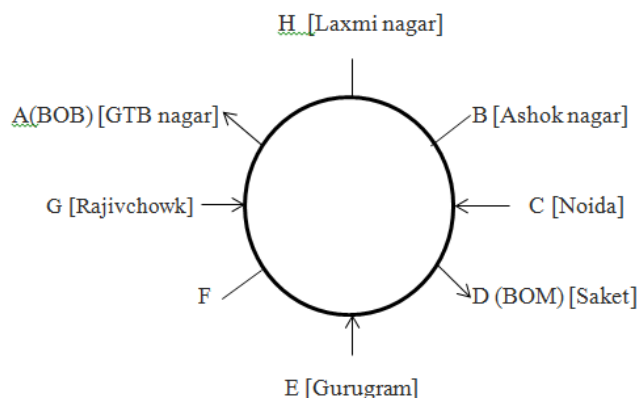
CASE2:
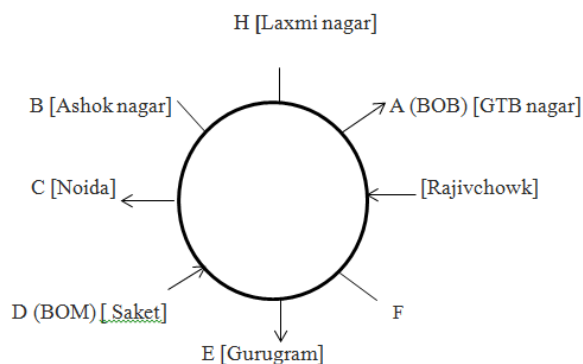
10. The person who work in BOB is an immediate neighbor of who works in SBI and BOI.

11. B is not an immediate neighbor of who works in SBI.

12. The person who works in BOI faces the person who works in RBI and both faces inside.

CASE1:
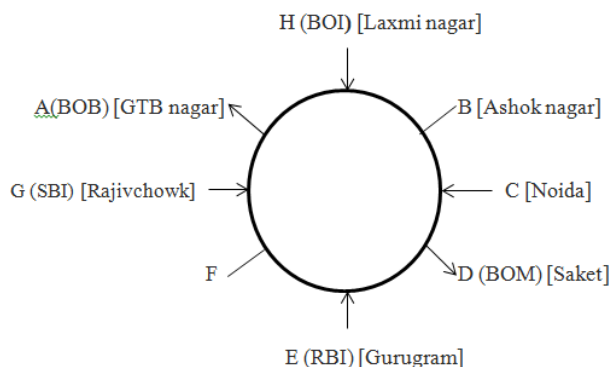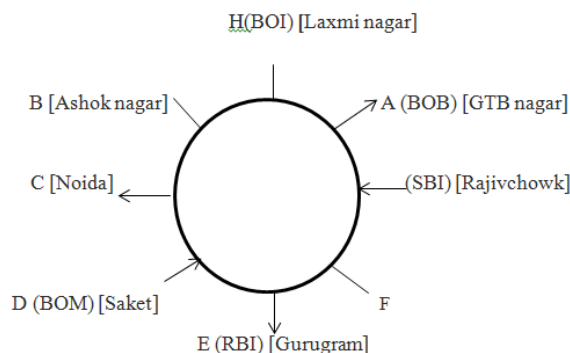
CASE2:

The person who works in RBI faces outside so CASE2 is cancelled out.

13. The person who works in RBI sits immediate left of who works in OBC.

14. The person who works in SBI does not faces who works in UBI.

15. The person who works at Ashok nagar and Mayur vihar are facing the same direction.

H (BOI) [Laxmi nagar]

A (BOB) [GTB nagar]   B(UBI) [Ashok nagar]

G (SBI) [Rajivchowk]   C (CBI) [Noida]

F (OBC) [Mayur vihar]   D (BOM) [Saket]

E (RBI) [Gurugram]

Final arrangement:

H (BOI) [Laxmi nagar]

A (BOB) [GTB nagar]   B(UBI) [Ashok nagar]

G (SBI) [Rajivchowk]   C (CBI) [Noida]

F (OBC) [Mayur vihar]   D (BOM) [Saket]

E (RBI) [Gurugram]
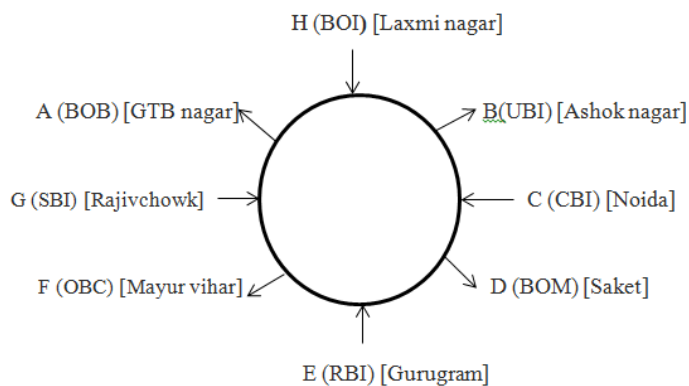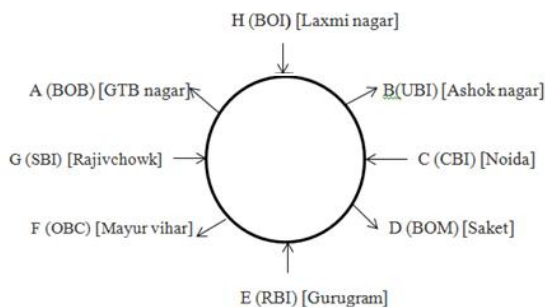
26. a

27. c

28. e

29. b

30. d

SOLUTION (31-35):

Explanation in detail:

1. T is an immediate neighbor of the student who likes TCL.

2. T belongs from New delhi.

3. U likes TCL.

4. The person who likes PHP is third to the left of the person who likes TCL.

5. P is an immediate right of U.

6. S sits immediate left of the person who likes PHP.

CASE1:

S
(PHP)

T [New delhi]   P

U (TCL)

7.

CASE2:

S
(PHP)

T [New delhi]

U (TCL)
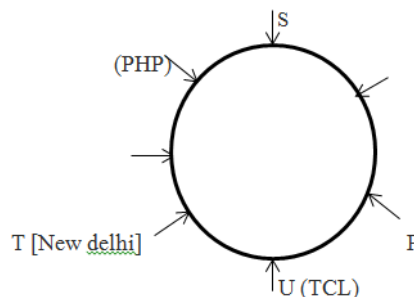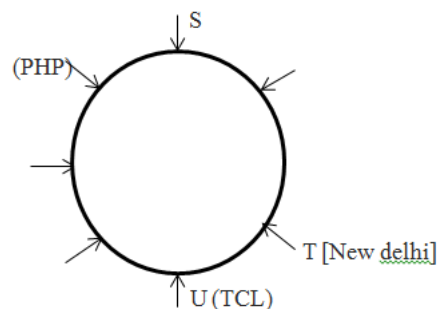
P does not sits on the immediate right to U, so Case2 is cancelled out.

8. The person who likes Ruby is second to the right of P.

9. The person who likes Perl is an immediate neighbor of P.

10. Q is fourth to the left of the person who likes Java.

11. P does not likes Java.

Final arrangement:
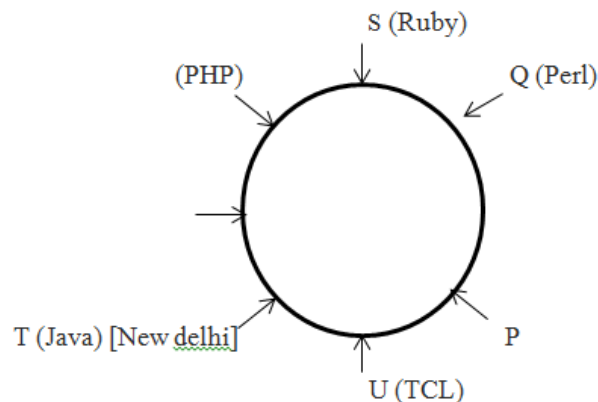
12. V is third to the right of the person who likes C++.

13. The person who likes Java is an immediate neighbor of the person who belongs to Patna.

14. The person from Noida likes C++.

15. V is not an immediate neighbor of either Bhopal or Patna.

16. The person from Ranchi sits second to the right of Q.

17. The person from Indore, does not like Python.
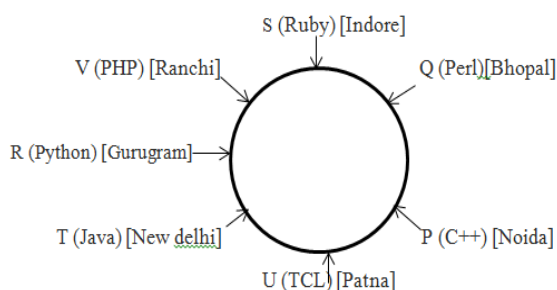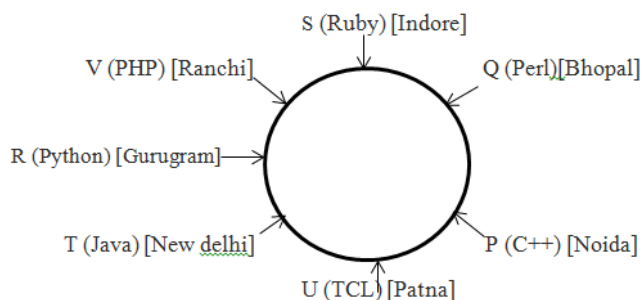
31. a

32. e

33. e

34. b

35. d

SOLUTION(36-40):

Explanation in detail:

1. Q does not sits opposite to P.

2. P is from India and likes Football and sits on the immediate right of T.

3. Q sits opposite the person who is from Russia.

4. V is from Russia.

5. Q is from France.

6. Only S and T Likes cricket and S sits third to the right of T.
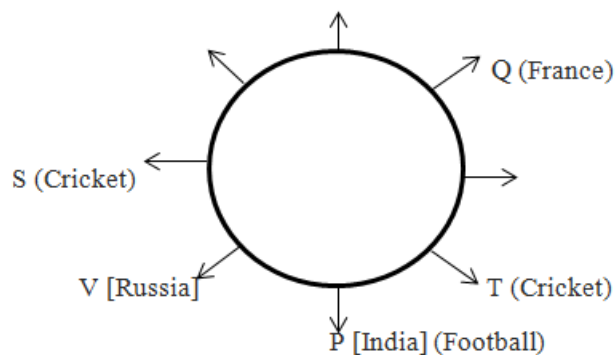
7. V is the third to the left of U.

8. U is from Italy and likes Tennis.

9. W likes the same sports as V.

10. The persons who belongs to Nepal and France likes football.

11. The persons who like Football are not immediate neighbors of each other.
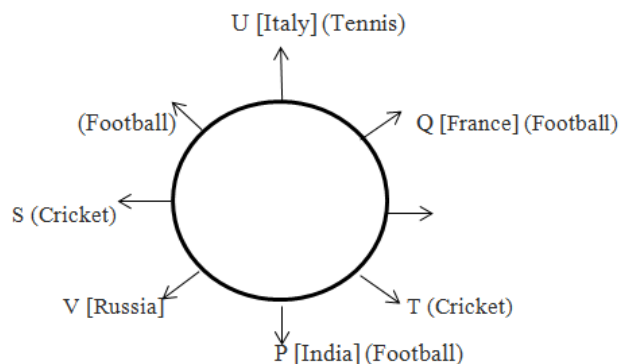
12. R sits exactly opposite the person who belongs to USA.

13. The one who is from Japan does not likes football or cricket.

14. W is not from Nepal.
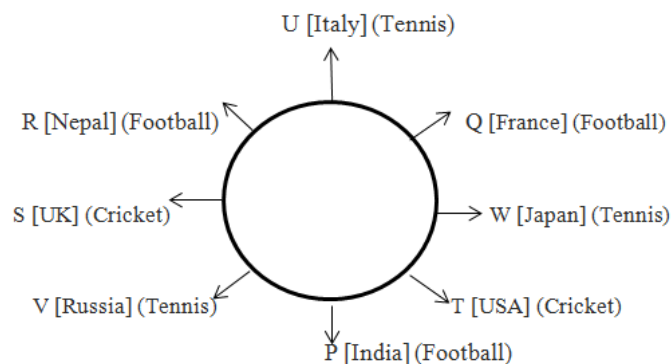
Final arrangement:
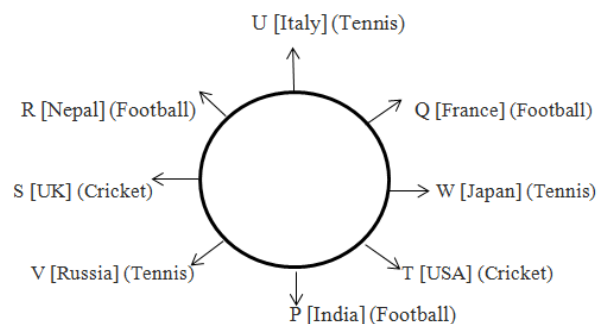
36. a
37. c
38. b
39. d
40. e

SOLUTION(41-45):

Explanation in detail:

1. D is sitting diagonally opposite to the one who stay on second floor.

2. Only one person is sitting between E and F, and that person stay on second floor.

CASE1:
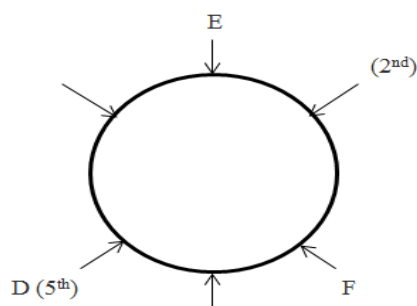
CASE2:
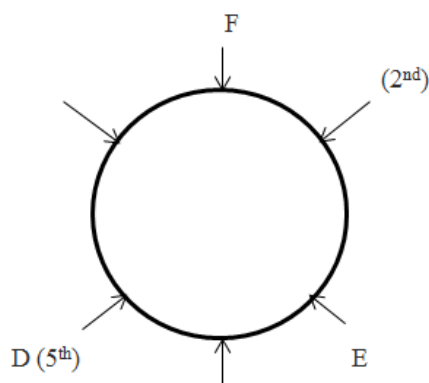
3. The one who belongs to Indore is sitting to the immediate left of the person who stay on fourth floor.

4. D stays on fifth floor and he belongs to Indore.

CASE1:
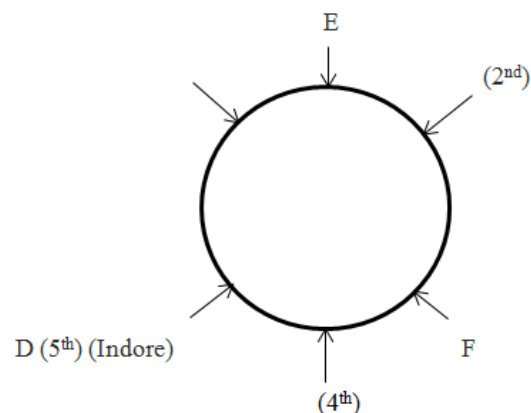
CASE2:
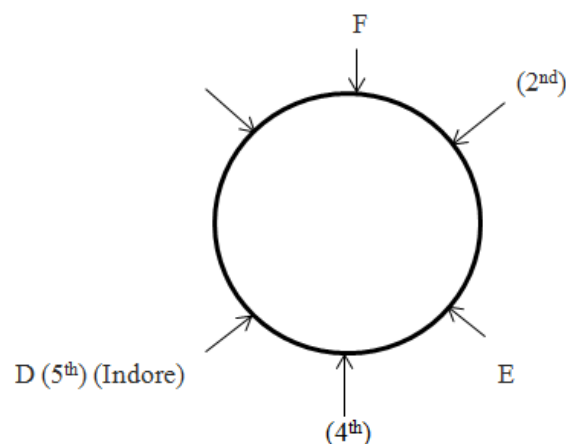
5. F stay on first floor and he is sitting to the immediate left of the person who stay on third floor.

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CASE1:

E
(2nd)
D (5th) (Indore)
F (1st)
(4th)

CASE2:

F (1st)
(3rd)
(2nd)
D (5th) (Indore)
E
(4th)
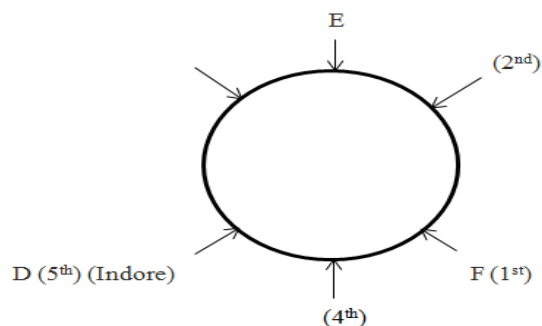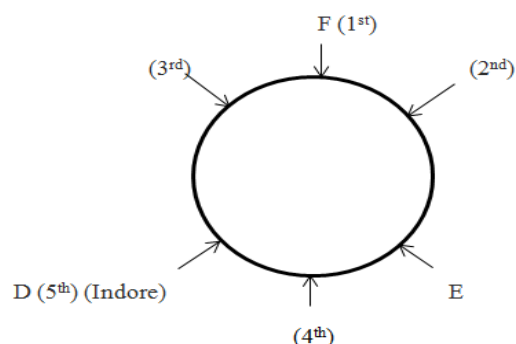
There is no such space for Third floor in CASE1 so CASE1 is cancelled out.

6. The person who stay on first floor is sitting to the immediate right to one who belongs to Kanpur.
7. The person who stay on sixth floor is sitting diagonally opposite to who belongs to Nashik.

CASE2:

F (1st)
(3rd) (Nashik)
(2nd) (Kanpur)
D (5th) (Indore)
E (6th)
(4th)
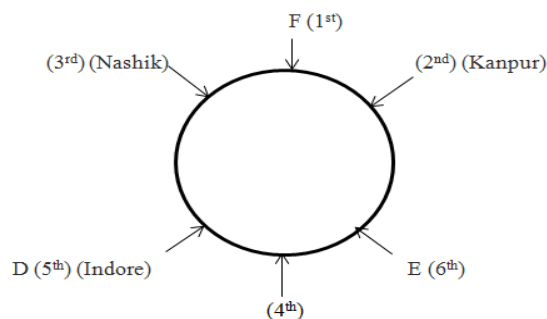
8. The one who belongs to Vellore does not stay on neither on fourth nor sixth floor.
9. The one who belongs to Ranchi does not stay on sixth floor.

CASE2:

F (1st) (Vellore)
(3rd) (Nashik)
(2nd) (Kanpur)
D (5th) (Indore)
E (6th)
(4th) (Ranchi)
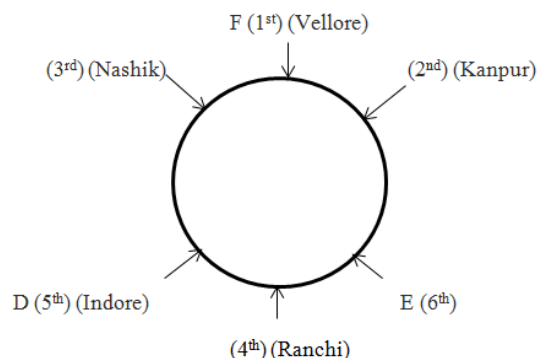
10. B does not belongs to Kanpur and he does not stay on third floor.
11. A does not stay on third floor.

CASE2:

F (1st) (Vellore)
C (3rd) (Nashik)
A (2nd) (Kanpur)
D (5th) (Indore)
E (6th) (Agra)
B (4th) (Ranchi)

Final arrangement:

F (1st) (Vellore)
C (3rd) (Nashik)
A (2nd) (Kanpur)
D (5th) (Indore)
E (6th) (Agra)
B (4th) (Ranchi)
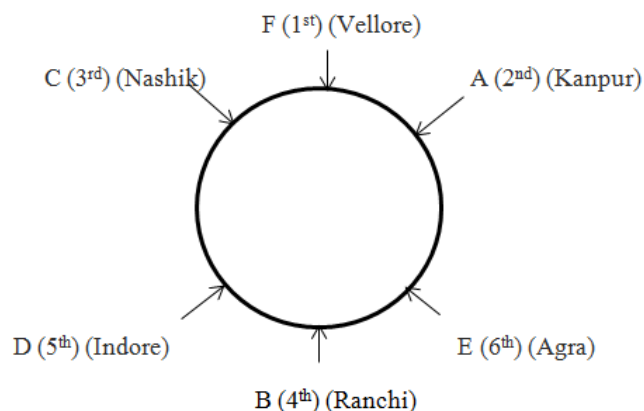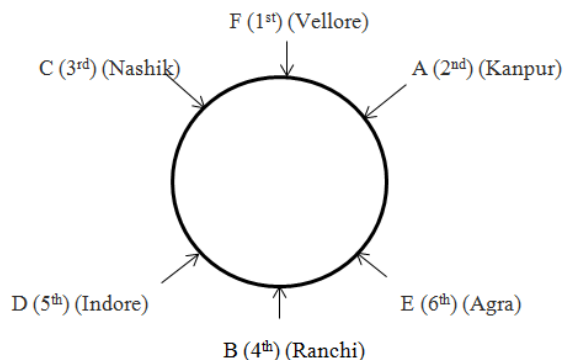
41.d

42.a

43.c

44.a

45.b

SOLUTION(46-50):

Explanation in detail:

1. A sits to the immediate left of the person who sits opposite to the person who is Lawyer.

2. The person who is Lawyer is not an immediate neighbour of F.

CASE1:
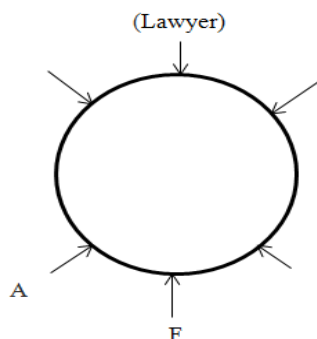
(Lawyer)
A
F
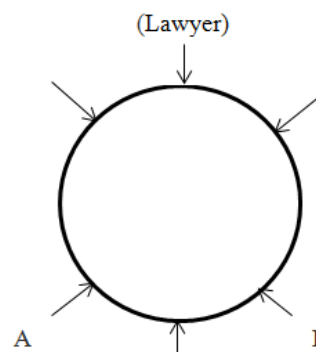
CASE2:

(Lawyer)
A
F

3. C has Sony sits second to the right of the person who is Singer.

4. C sits to the immediate left of the person is Lawyer.

CASE1:

(Lawyer)
C [Sony]
A
F (Singer)

CASE2:

(Lawyer)
C [Sony]
A
F
(Singer)
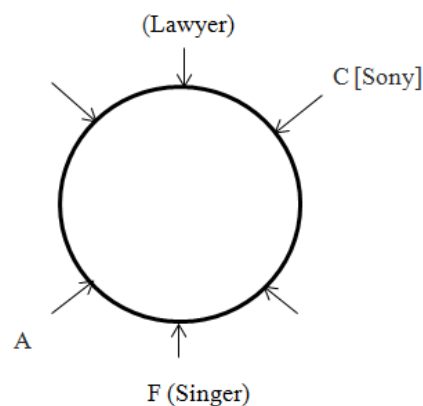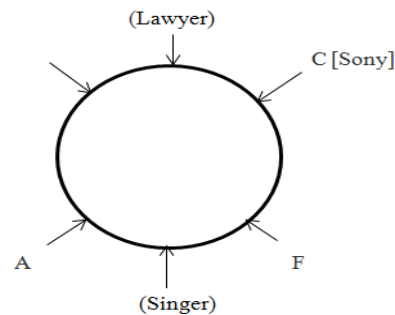
5. The one who is Teacher sits immediate right to the one who is Singer.

6. The one who is Teacher has Oppo.

CASE1:
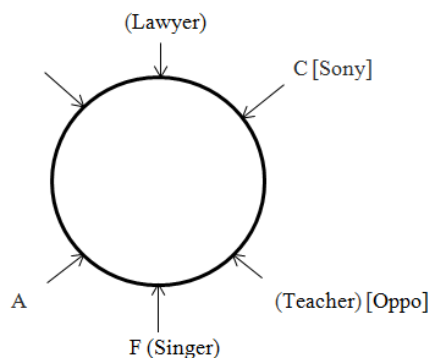
CASE2:
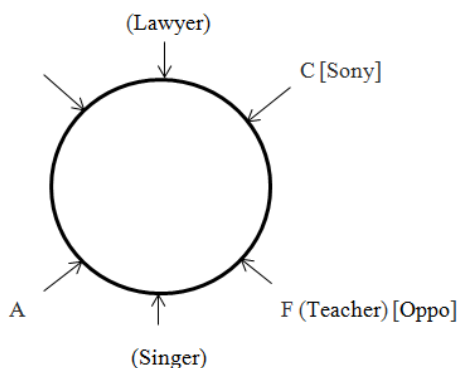
7. The one who is Architecture sits opposite to D.

CASE1:
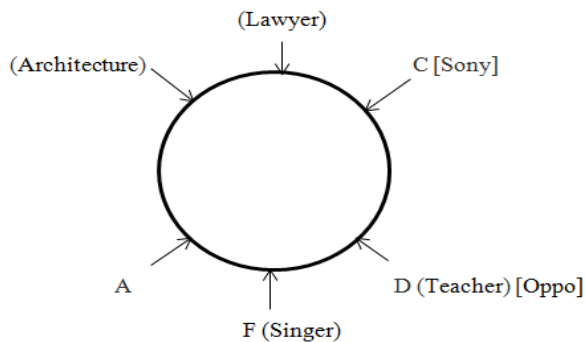
CASE2:
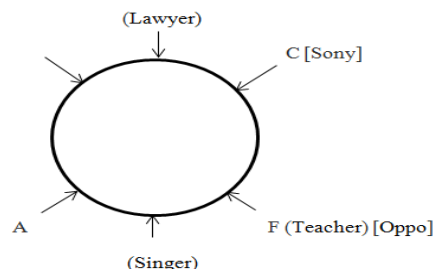
There is no space for D in CASE2 so CASE2 is cancelled out.

8. B has HTC and he is not an Architecture.

9. B who is not an immediate neighbour of D and sits second to the left of the person who has Redmi mobile phone.

10. The one who is Teacher sits second to the left of the person who has HTC.

CASE1:
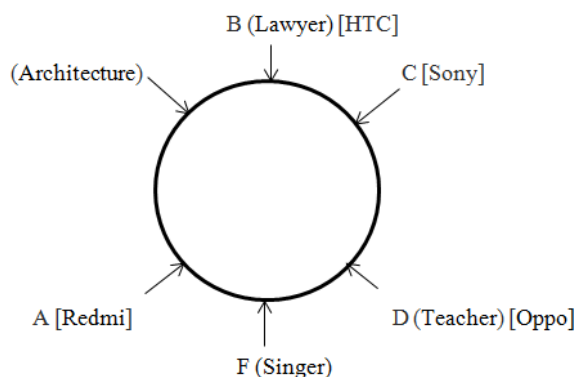
11. The one who is Doctor has not Redmi.

12. F has not Nokia mobile.

CASE1:

B (Lawyer) [HTC]

E (Architecture) [Nokia]   C (Doctor) [Sony]

A (Engineer) [Redmi]   D (Teacher) [Oppo]

F (Singer) [Samsung]

Final arrangement:

B (Lawyer) [HTC]

E (Architecture) [Nokia]   C (Doctor) [Sony]

A (Engineer) [Redmi]   D (Teacher) [Oppo]

F (Singer) [Samsung]
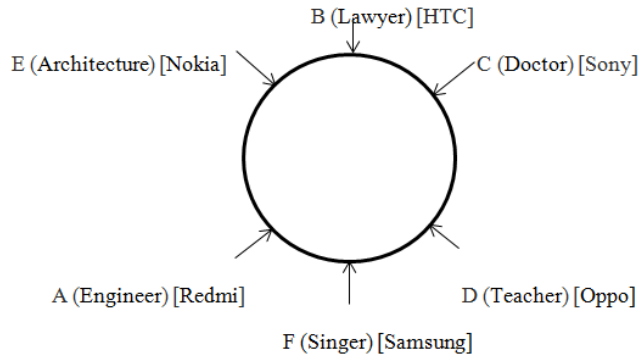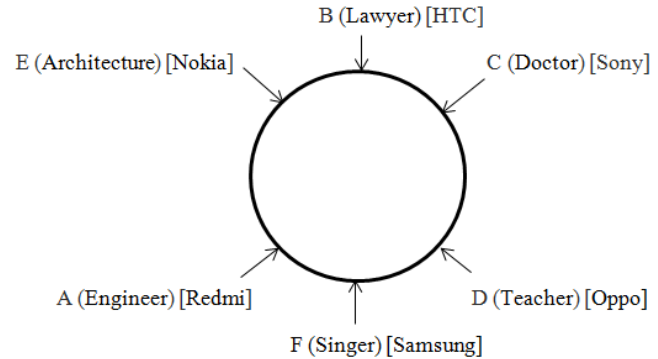
46.b

47.d

48.a

49.a

50.e

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Seating Square 3 Variable

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

Eight persons P, Q, R, S, T, U, V and W are sitting around a rectangular table in such a way that four of them sit at four corners, who are facing towards center, and rest four who sits at the middle of the side, are facing outside. They like different Fruits – Apple, Banana, Pear, Grape, Guava, Kiwi, Mango and Cherry. All of them were born on different date starting from 11 to 18 of the same month of same year.

Q sits at the corner and likes Pear fruit. Only two persons sit between Q and the one who was born in an odd numbered date which is greater than 14th. V neither likes Apple nor Guava fruit. S sits third to the right of V and was born on 12. S is not an immediate neighbor of Q. The one who was born on 13th likes Mango fruit and faces center. Only two persons sit between U who likes Banana fruit and T who faces inside the center. The one who likes Guava fruit was born on 15th. Q was born on the date which is an odd number. R faces inside the center. U is not an immediate neighbor of S. P sits second to the left of W

who likes Kiwi fruit. The one who likes Grape fruit sits second to the right of the one who likes Apple fruit. The youngest person likes Cherry fruit and P is not the oldest person. S faces inside the center. Neither R nor P likes Apple fruit. T is 2 days older than U. The one who born on 11 and the one who born on 17 are not immediate neighbor.

1. What is position of T with respect to R?

(a) Third to the right

(b) R and T sit diagonally opposite to each other

(c) Second to the right

(d) Second to the left

(e) Fifth to the right

2. Who sits exactly between V and U?

(a) Q

(b) R

(c) P

(d) W

(e) S

3. Which of the following pairs represents the persons seated in the middle of the sides who face Opposite to each other?

(a) S, Q

(b) T, R

(c) U, P

(d) R, V

(e) T, Q

4. Who amongst the following sit between W and P when counted in clockwise direction from P?

(a) No one sits between P and W because W and P are immediate neighbors of each other

(b) S and T

(c) P and S

(d) The person whose born date is 12.

(e) U, S and T

5. If Q is made to face the opposite direction, who would sit to his third right?

(a) R

(b) Q

(c) W

(d) T

(e) P

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

Eight persons A, B, C, D, E, F, G and H are sitting around a rectangular table in such a way that four of them sit at four corners are facing towards center, and rest four who sits at the middle of the side, are facing outside. They all are different ages- 25, 18, 32, 7, 36, 40, 21 and 15. Each of them likes different Color – Grey, White, Green, Blue, Black, Yellow, Orange and Purple.

Age of D is multiple of 5. C likes Orange color and sits at the corner. Only two persons sit between C and the one who is 21years old. The one who likes White color sits third to the right of the one who is 7years old. The one who is 25years old likes Purple color and sits at the corner. G sits second to the left of the one who is 21 years old. D sits second to the left of the one who likes White color. E

is the oldest person of the group. B likes Grey color and sits third to the right of D. The one who likes blue color sits opposite to G. The one who likes Purple color sits second to the left of the one who likes Yellow color. F sits second to the right of H. The one who likes Black color sits second to the right of the one who is 32 years old. C is older than B who is not the third oldest person of the group. The one who is 7 years old does not sit at the corner.

6. **The age of the person who is 2nd to the right of D is?**
   (a) 40years
   (b) 32years
   (c) 25years
   (d) 18year
   (e) None of these

7. **Who among the following person sit opposite to the person of is immediate left of F?**
   (a) The one whose age is 32years.
   (b) The one whose age is 18years.
   (c) The one whose age is 15years.
   (d) The one whose age is 40years.
   (e) None of these

8. **Which among the following combination is true?**
   (a) B –White
   (b) G – Yellow
   (c) A- Blue
   (d) C - Grey
   (e) None is true

9. **What is the position of H with respect to the one who likes Orange color?**
   (a) Third to the right
   (b) Second to the left
   (c) Either (a) or (e)
   (d) Immediate left
   (e) Fifth to the left

10. **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) B
    (b) D
    (c) G
    (d) H
    (e) F

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

Eight friends S, T, U, V, W, X, Y and Z are sitting around a square table in such a way that four of them sit at four corners while four sit in the middle of each of the four sides, but not necessarily in the same order. Each one of them like different type of sports viz. Hockey, Cricket, Basket Ball, Foot Ball, Boxing, Wrestling, Badminton and Tennis. And each one of them have different weight viz. 61kg , 59kg, 46kg, 71kg, 73kg, 66kg, 56kg, and 81kg. The one who sits in the middle of the sides face the center while those who sits at the four corners face outside (i.e opposite to the center).

Y sits third to the right of W. The one who faces the centre likes Cricket. W sits on one of the corners of the table. T does not like Basketball. The one who likes Badminton is one of the immediate neighbors of X. Total weight of immediate neighbor of T is 112kg. The one who likes Cricket sits immediate left of the person one who likes Badminton. The person having 73kg weight sits between U and the person who like Badminton. Only one person sits between V and Y. T is one of the immediate neighbors of V. The one who faces the outside of the centre likes Boxing. The one who likes Hockey faces the Y. The persons who like Wrestling and Football sit next to each other. W does not like Boxing. U sits second to the right of T. Total weight of U and W is 152kg. Only three persons sit between T and S and difference of their weight is 2kg and S is heavier than T. Z sits to the immediate right of S. The persons who like Basketball and Boxing sit on the corners and opposite to each other. Immediate neighbor of W's total weight is 122kg. The person likes wrestling sit immediate right of the person who likes Tennis. W is heaviest person among all friends.

11. Who among the following is a Cricket player?

   (a) X

   (b) U

   (c) T

   (d) Can't be determined

   (e) None of these

12. V is related to which of the following games?

   (a) Badminton

   (b) Boxing

   (c) Can't be determined

   (d) None of these

   (e) Foot Ball

13. Who among the following sits exactly between U and the Basketball Player?

   (a) The person who plays Tennis

   (b) The person who plays Wrestling

   (c) The person who plays Badminton

   (d) Football player

   (e) None of these

14. How many persons sit between the one whose weight is 56kg and the one whose weight is 59kg?

   (a) None

   (b) One

   (c) Two

   (d) Three

   (e) Can't be determined

15. Which of the following pairs are the immediate neighbors of the Hockey player?

   (a) S, W

   (b) X, S

   (c) U, T

   (d) V, W

   (e) W, U

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

Eight person namely – A, B, C, D, E, F, G and H are sitting in a rectangular table in such a way that one person is

sitting on each corner and one person on each edge. Person on edge are facing center while person at each corner sits facing outward. Each person likes different cricketers viz. Shakib Al Hasan, Joe Root, Sourav ganguly, Kumar Shangakara, Crys Gale, Ricky Ponting, Kene Williamson and AB de villiers. Each person also likes different Teams viz. India, Australia, England, South Africa, New Zealand, West Indices, Bangladesh and Srilanka. All the information are not necessary in same order.

The person who likes Ricky Ponting sits third to right of the one who is from Bangladesh Team. The person who likes Kene williamson sits third to right of the one who is from South Africa. D, who doesn't sit adjacent to the person one who likes Kumar Shangakara and sits adjacent to the one who is from Australia. The one who is from Bangladesh sits immediate left of the person one who likes Joe Root but doesn't sit at corner of the table. C is from New Zealand, sits second to the left of the person who likes Shakib Al Hasan. G likes Ricky Ponting, sits second to the right of the one who likes West Indices. E and the person who is from England are immediate neighbours. Only two persons sit between the person who is from West Indices and the one who likes Sourav Ganguly. H, who neither likes Joe Root nor from New Zealand team but sits adjacent to the one who likes Sourav Ganguly. B and the person from New Zealand are immediate neighbours. Only two persons sit between H and A, who is from Srilanka team but not sit adjacent to the person who neither likes Joe Root nor likes Shakib Al Hasan. F and

the one who likes Shakib Al Hasan doesn't sit together. The person who likes Crys Gale neither sits adjacent to G nor with the one who from Bangladesh but sits immediate left of the one who likes Kene Williamson. The person who likes Kumar Shangakara faces E. Only two people sit between C and the one who is from South Africa.

16. Who sits to the second to left of one who likes Sourav?
   (a) The one who likes Sachin.
   (b) The one who likes Australia.
   (c) One who likes Joe Root.
   (d) The one who likes Shakib.
   (e) The one who likes AB de Villiers.

17. What is the position of one who likes Kumar Shangakara with respect to one who likes Kene Williamson?
   (a) Second to left
   (b) Third to right
   (c) Can't be determined
   (d) Immediate left
   (e) Third to Left

18. Which of the following combination is not true?
   (a) F– WI – Crus Gale
   (b) D – India – Kene
   (c) C – NZ – Kumar
   (d) E – SA – Ricky Ponting
   (e) All the above given combination are true.

19. How many person sits between one who likes AUS and one who likes Kene Williamson when counted left of one who likes AUS?

(a) Three

(b) Four

(c) One

(d) None

(e) Two

20. Which of the following statement is not true?

(a) One who likes Kene sits second to right of one who likes Srilanka.

(b) The one who likes Ricky Ponting sits immediate right of one who likes Srilanka.

(c) B sits second to left of F.

(d) One who likes India sits second to right of one who likes Shakib.

(e) All the above given information are true.

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

Eight members of a society i.e. C, G, N, P, K, T, O and L are sitting around a square table; no one sits at corner only two persons sit each of the side of square table. They are working in different companies i.e. Wipro, Tech Mahindra, Patni Computer, IBM, Google, Cognizant, Microsoft and Oracle but not in same order. They all are facing towards the centre and lives in different City i.e. Chandigarh, Mumbai, Delhi, Chennai, Hyderabad, Indore, Raipur and Jaipur but not in same order.

The one who live in Delhi sits immediate right of the one who works in Oracle. The one who works in Wipro sits 2nd to the left of N. C sits 2nd left of K who works in Tech Mahindra. L sits opposite of the one who works in Oracle. The one who works in IBM sits immediate left of the one who works in Oracle. There are two members sit between the one who live in Delhi and Raipur. T sits 3rd right of the one who sits immediate left of L. The one who lives in Indore sits immediate right of the one who lives in Chandigarh. The one who works in Cognizant sits 2nd to the right of the one who works in Microsoft. There are two members sit between L and K. P does not sit opposite side of C. K does not lives in Chennai. O sits 3rd to the right of the one who works in Google who sits opposite side of the one who works in Microsoft. The one who lives in Jaipur sits opposite side of the one who works in Cognizant. The one who works in Patni Computers sits just opposite of that member who work sits in Wipro. P sits just near to L. G does not opposite side of the one who works in Google. P does not live in Raipur but sits opposite of the one who lives in Mumbai. O lives in Delhi and L doesn't live in Chandigarh.

21. What is the position of O with respect to G?

(a) Third to the right

(b) Second to the right

(c) Third to the left

(d) Second to the left

(e) Fourth to the right

22. Who sits third to the right of the one who work in Tech Mahindra?

(a) G

(b) C

(c) T

(d) P

(e) L

23. How many person sit between the person who work in IBM and the person who is from Jaipur when counter to the right of IBM?

(a) None

(b) One

(c) Two

(d) Three

(e) Four

24. Which of the following statement is true?

(a) The person who is from Mumbai is 2nd to the right of the one who is from Hyderabad.

(b) The person who work in Google sits 3rd to the left of the person who is from Delhi.

(c) One person between K and T

(d) G and P faces each other

(e) None of these

25. Which of the following person sits 3rd to the right of the person who faces the person from Chennai?

(a) C

(b) T

(c) O

(d) N

(e) P

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

Eight persons i.e. K, H, C, X, O, W, F and Z are sitting around a square table. After completion of their graduation, they are going to open different shops in different months of same year. These shops are Bakery, Garment, Electrical, Stationary, Medical, Dairy, Gift and Liquor but not in same order. Now different opening months are March, June, August, December, January, April, February and November but not in same order. Four persons are seated at the corner of this table and faces inside and Rest four persons are seated at middle of each side of this table and faces outside.

O is not going to open shop in June. The one who is going to open Liquor shop does not sit near to W. The one who sits at one of the corner of this table is going to open shop in August and sits 3rd left of the one who is going to open Medical shop. There are two persons sit between C and the one who is going open shop in August. K sits 2nd right of C who is going to open shop in April. The one who is going to open shop in March sits 2nd left of the person who is going to open shop in that month which has less days compare to all other months. C sits opposite to the one who is going to open shop in February. X who is going to open shop in December sits immediate right of C. The one who is going open Electrical shop sits opposite to the one who is going open Stationary shop. There are two Person sit between X and W who is going to open shop in

January. Z is going to open Liquor shop but sits diagonally opposite to the one who is going open dairy shop. The one who is going to open shop in November sits 2nd to the right of F. The one who is going to open Stationary shop sits near to X. The one who is going to open shop in August does not want to open Gift and Bakery shop. The one who is going to open Bakery shop sits just near to F.

26. What is the position of X with respect to the one who want to open Electrical shop?

(a) Third to right

(b) Second to left

(c) Third to left

(d) Fourth to right

(e) Fourth to left

27. What is the position of Z with respect to the one who open his shop on March?

(a) Second to right

(b) Third to right

(c) Immediate left

(d) Second to left

(e) Immediate right

28. Who sits third to the right of the one, who Open his shop on December?

(a) C

(b) X

(c) W

(d) O

(e) K

29. Who sits immediate right of the one who want to open Dairy Shop?

(a) Who want to open Medical Shop

(b) Who want to open Electrical Shop

(c) Who want to open Gift Shop

(d) Who want to open Stationary Shop

(e) Who want to open Liquor Shop

30. How many person sits between the one who open shop on August and April?

(a) Six

(b) Five

(c) None

(d) Two

(e) Three

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

E, F, G, H, I, J, K and L are 8 members of a family each having different age. They all have different hobbies (or they like different activity) viz Cricket, Chess, Hockey, Tennis, TT, Football, Basketball and Volleyball. They are sitting around a rectangular table facing the centre and they all are seated with equal distance, but not necessarily in the same order. Each side of the table two person sits together, no person sits on the corner of the table. Ages are an integer value. There are four couples in the family. Every Wife is at least two year younger than her husband. Three generations are there in a family.

K does not sit opposite to L. The hobby of G's son-in-law is not Football and Chess. H, who is 34 years old, is son-

in-law of I and seated second to the right of K, who is the wife of E. The hobby of H's brother-in-law is Basketball. The person whose hobby is Tennis sits second to the right of the person, who is 80 years old. G is the father of F who is not the youngest member in the family. The hobby of L's grandfather is not Volleyball. No three females are sitting together. The daughter-in-law of E is 56 years old. L is 6 years elder than his wife. The person who is 36 years old is seated second to the left of J's father-in-law. The age of E is 2.5 times the age of F. Only one couple can sit together. The hobby of the person whose age is 78 years is neither TT nor Volleyball. No one is less than 22 years old. Each parent is at least 20 years elder than his/ her child. K is the grandmother of L. The daughter-in-law of I is not near to her. The person whose hobby Cricket, is immediate neighbour of the persons, whose hobby is Chess and the one, who is husband of J. The Person whose hobby is Football sits opposite to the person, who is immediate right of F's husband. E is seated between L's grandmother and wife of L.

31. Who amongst the following faces the person whose Hobby is Hockey?

(a) The person whose hobby is Cricket

(b) The person whose age is 58years

(c) The person whose hobby is Basketball

(d) The person whose age is 36years

(e) None of these

32. The Hobby and Age of the person who is brother of F is?

(a) Cricket, 32

(b) Football, 30

(c) Basketball, 36

(d) TT, 80

(e) None of these

33. Which of the following is true regarding I?

(a) I is immediate neighbor of K and H.

(b) I have two son

(c) Age of I is 58 years

(d) Hobby of I is Chess

(e) None of these

34. H is related to Cricket in the same way as F is related to Football based on the given arrangement, to whom amongst the following is J related to the following same pattern?

(a) TT

(b) Chess

(c) Basketball

(d) Hockey

(e) Volleyball

35. Who among the following is Grand Son in law of E?

(a) The one whose age is 30years

(b) The one whose age is 36years

(c) The one whose age is 32years

(d) The one whose age is 36years

(e) The one whose age is 34years

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

A, B, C, D, E, F, G and H are eight boys sitting around a Rectangular table. Two of them are facing outside while rest is facing towards centre. Each side of the table two person sits together, no person sits on the corner of the table. All of them like books of different writers, viz. CB, RA, VS, PB, AP, BJ, EN and IG but not necessarily in the same order. Each of them is carrying a bucket with a capacity of 3, 5 or 8 liters. Total volume of all the buckets of these eight friends is 40 liters.

D and C are sitting third and second to the left of A respectively who faces outside. The difference between the volumes of buckets of B and the one who likes VS is the same as the number of persons sitting between them. D and G are neighbors of B, who likes AP. The one who likes PB sits on the immediate right of B. G is sitting third to the right of A and likes CB. The sum of total capacities of the buckets of the immediate neighbors of A is greater than 6 but less than 10. H sits third to the right of E and likes EN. The capacity of the bucket of the person who likes IG is not the highest but greater than that of his immediate right neighbor. A and H are not the neighbor of that person who likes BJ. F does not like VS and PB. Both the immediate neighbors of E have buckets of 3 liters Capacity. The person who likes IG is immediate neighbor of the one who sits sitting opposite E. The one who likes AP has a bucket of 5 liters. B and A are not facing each other. The person who likes RA does not faces AP

36. Who sits to the immediate left of the one who like Book writer AP?

(a) VS

(b) RA

(c) BJ

(d) CB

(e) IG

37. Four of the following five are alike in a certain way based on the given arrangement and hence form a group. Which is the one that doesn't belong to that group?

(a) H

(b) A

(c) C

(d) D

(e) E

38. The total sum of the person who like book writers EN, PB, BJ and RA have how many ltrs?

(a) 22

(b) 18

(c) 20

(d) 21

(e) 19

39. Who is second to the left of G?

(a) D

(b) C

(c) B

(d) E

(e) F

40. How many persons sit between D and the person who likes book writer RA?

(a) One

(b) Four

(c) Three

(d) Two

(e) None

Directions (41-45): Study the following information carefully to answer the given questions.

Eight Friends P, Q, R, S, T, U, V and W are sitting around a Rectangular table facing the centre. Four of them sit at corners of the table. Each one of them holds a different post viz. Manager, Company Secretary, Chairman, President, Vice – President, Group Leader, Financial Advisor and Managing Director but not necessarily in the same order. Each person likes different movies namely viz – Spider Man, Titanic, Batman, Super Man, Finding Nemo, Jurrasic Park, Avengers and Avatar.

President faces the person who likes Spider-Man. Q likes Titanic. P sits third to the right of Managing Director. P is not the Chairman. The person who likes Avengers sits immediately right to the person who likes Avatar and faces Jurrasic Park. T is not an immediate neighbor of W. R sits on the immediate right of the Chairman. Neither P nor W is a Vice – President or a Company Secretary. Vice –President is not an immediate neighbor of the Managing Director. The person who likes Superman sits exactly in the middle between the persons who like Batman and Avatar. The Manager sits second to the left of T and does not sit at corner of the table. The Manager is an immediate neighbor of the both Group Leader and the

Financial Advisor. The Financial Advisor sits third to the right of Q. Q is not the Vice – President. U is not an immediate neighbor of P. V is not an immediate neighbor of the Manager. Only two people sit between the Managing Director and W. The Vice – President and the Company Secretary are immediate neighbors of each other. Financial Advisor faces the person who likes Finding Nemo.

41. Who amongst the following sits second to the left of T?

(a) V

(b) The Manager

(c) P

(d) The Financial Advisor

(e) Q

42. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which is the one that does not belong to that group?

(a) T – Chairman

(b) V – President

(c) S – Manager

(d) P – Financial Advisor

(e) Q – Managing Director

43. Who among the following is the Vice – President of the company?

(a) S

(b) R

(c) Q

(d) P

(e) V

44. Which of the following is true with respect to the given seating arrangement?

(a) T sits to the immediate left of the Managing Director

(b) The Group Leader of the company is an immediate neighbor of the Vice – President

(c) V sits second to right of S

(d) The Group Leader and the Company Secretary are immediate neighbors of each other

(e) The Group Leader sits second to the left of the person who likes Super Man

45. Who among the following likes Titanic?

(a) Chairman

(b) Manager

(c) Vice – President

(d) Company Secretary

(e) Financial Advisor

Directions (46-50): Study the following information carefully to answer the given questions

Eight students S, T, U, V, W, X, Y and Z participated in a Collage Quiz competition. They were sitting around a Square table in such a way that one Student is sitting on each corner and one student on each edge. The students who sit at corners faces outside and rest faces inside All eight students participated in different subjects quiz General Knowledge, Mathematics, English, and Reasoning, at least two students in each subject group, but not necessarily in the same order. These students are from different Collages, viz IIT delhi, IIT Mumbai, IIT Indore, IIT Bhilai, IIT Kharagpur, IIT Chennai, IIT Guwahati and IIT Goa but not necessarily in the same order. No two students of the same subject group are sitting adjacent to each other except those who belong to English group. The Students from reasoning group are sitting opposite to each other. V is neither in IIT Indore nor in IIT kharagpur and does not sit at any corners. The student who is from IIT Guwahati is sitting on the immediate right of the student who is from IIT Indore. U, who is in the IIT Bhilai, is in General Knowledge group and she is sitting on the immediate right of Y, who is in group English. Y is neither from IIT Kharagpur nor IIT Indore. T who is from IIT Delhi is neither in reasoning group nor in the subject group of General Knowledge and Math's. T is sitting opposite to W. Only IIT Chennai Student S is sitting between the participant W, who is from Guwahati and IIT Goa participant. Both the students of subject group Mathematics are sitting Immediate Right of the students of subject group Reasoning. X is not the neighbor of V. The students of Mathematics group do not sit at middle of the side.

46. Who is to the immediate left of the one who is from IIT Guwahati College?

(a) S

(b) V

(c) Z

(d) T

(e) None of these

47. Who among the followings is from IIT Delhi and IIT Goa respectively?

(a) V, U

(b) T, Z

(c) T, Y

(d) T, V

(e) None of these

48. Who is sitting third to the left of the one who is from IIT Chennai and belongs to which subject group?

(a) U, GK

(b) W, Reasoning

(c) V, Reasoning

(d) Z, GK

(e) None of these

49. Which of the following subject groups sits at corners only?

(a) Reasoning

(b) Mathematics

(c) English

(d) GK

(e) None of these

50. 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?
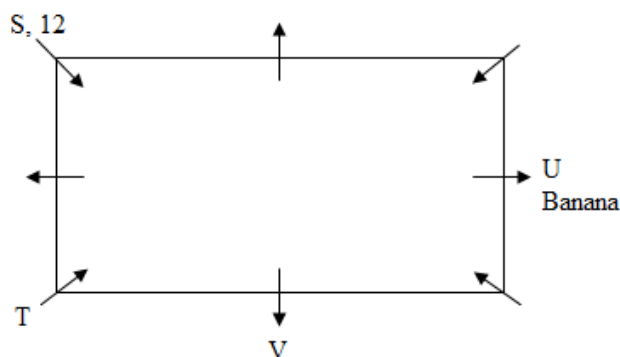
(a) U

(b) T

(c) V

(d) W

(e) Y

Seating Square 3 Variable – Answer and Explanation

SOLUTION (1-5):

1. S sits third to the right of V and was born on 12.
2. S faces inside the center.(S sits at corner)
3. U is not an immediate neighbor of S.
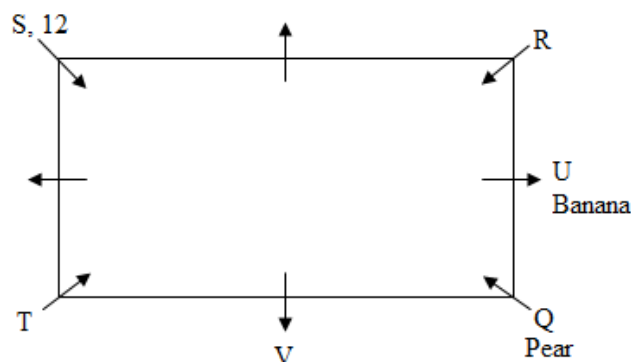4. Only two persons sit between U who likes Banana fruit and T who face inside the center.

5. Q sits at the corner and likes Pear fruit.
6. R faces inside the center.(R sits at corner)
7. S is not an immediate neighbour of Q

Here 2 cases for Q

CASE 1
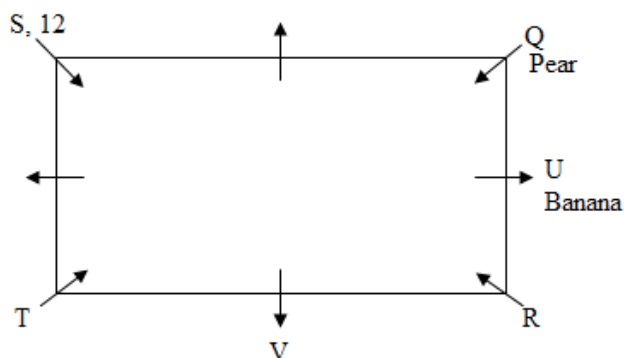
CASE 2

8. P sits second to the left of W who likes Kiwi fruit
9. Q was born on the date which is an odd number.
10. The one who likes Guava fruit was born on 15th.
11. The one who was born on 13th like Mango fruit and faces center

   Here date for Q = 11, 13, 15, 17

   13, 15 not possible for Q because Q like Pear fruit and 13 and 15 like different fruits other than Q.
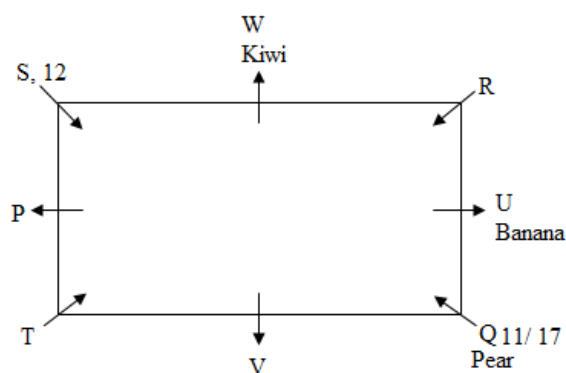
   So Q = 17/ 11

   CASE 1
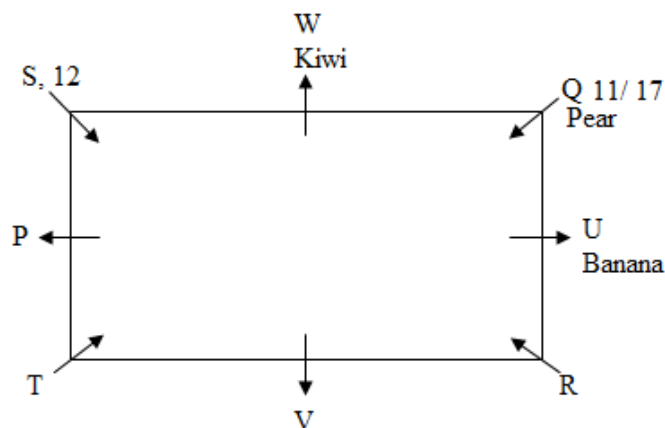
CASE 2

12. V neither likes Apple nor Guava fruit.

13. The one who was born on 13th likes Mango fruit and faces center.

14. The one who likes Grape fruit sits second to the right of the one who likes Apple fruit.

15. Neither R nor P likes Apple fruit.

CASE 1(In this case we can place Apple at T also but after that we cannot place 13 and mango. So, we have left with only option by placing Apple as S.)
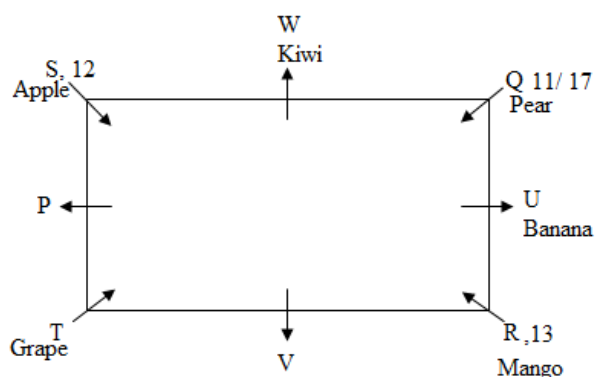
CASE 2
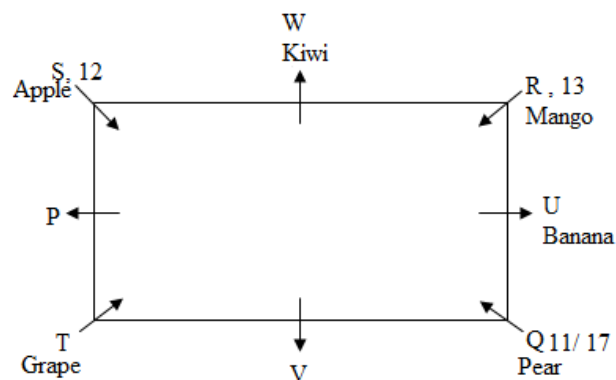
16. The one who likes Guava fruit was born on 15th

17. The youngest person likes Cherry fruit. (youngest means born on 18)

18. V does not like Guava fruit.

CASE 1

CASE 2

19. T is 2 days older than U.

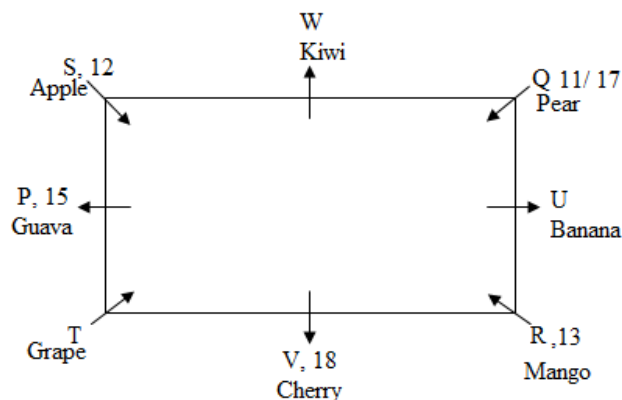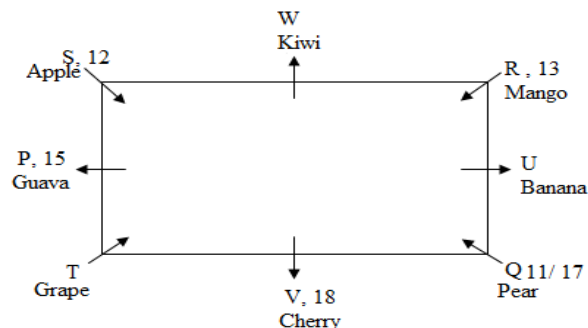20. The one who born on 11 and the one who born on 17 are not immediate neighbor.

21. Only two persons sit between Q and the one who was born in an odd numbered date which is greater than 14th.

From here it is clear that T = 14 and U = 16

And case 1 was also eliminated because 11 and 17 are immediate neighbor.

Case 2
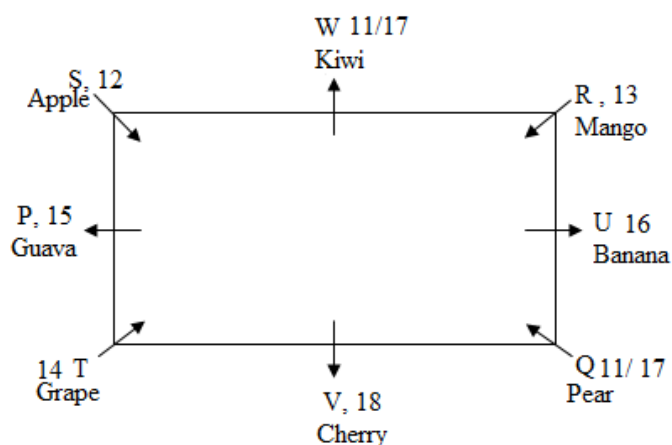
Final Arrangement
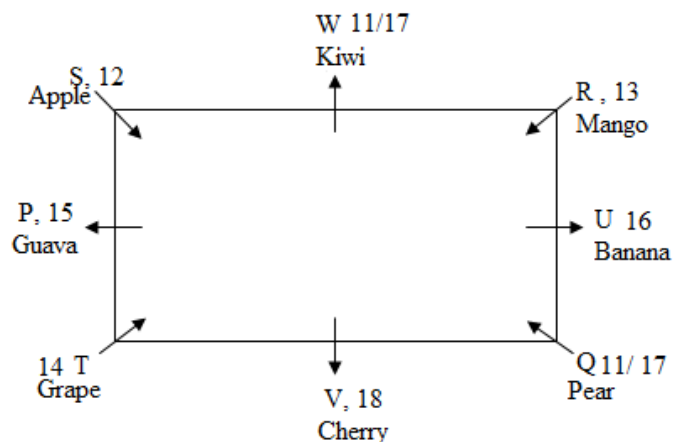
1. b

2. a

3. c

4. d

5. e

SOLUTION (6-10):

1. C likes Orange colour and sits at the corner.

2. Only two persons sit between C and the one who is 21 years old

3. G sits second to the left of the one who is 21 years old

4. The one who likes blue colour sits opposite to G.

Two case for C and 21

CASE 1

CASE 2

5. The one who is 7 years old does not sit at the corner.

6. The one who likes White color sits third to the right of the one who is 7years old.

7. D sits second to the left of the one who likes White color.

8. B likes Grey colour and sits third to the right of D.

We can place 7 to immediate left of C in both the cases because 8th condition not follow.

CASE 1
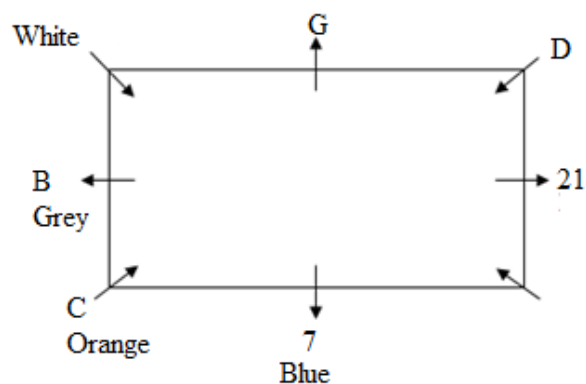
CASE 2
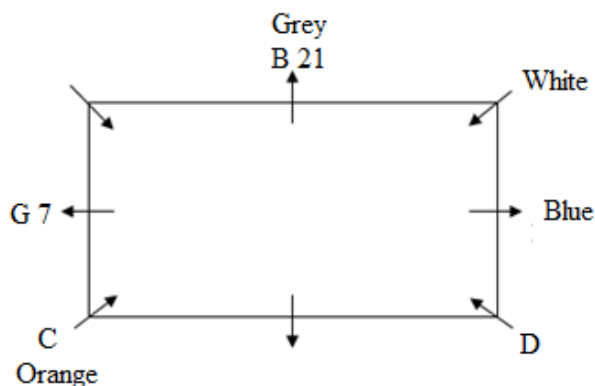
9. The one who is 25years old likes Purple colour and sits at the corner

10. The one who likes Purple colour sits second to the left of the one who likes Yellow colour.
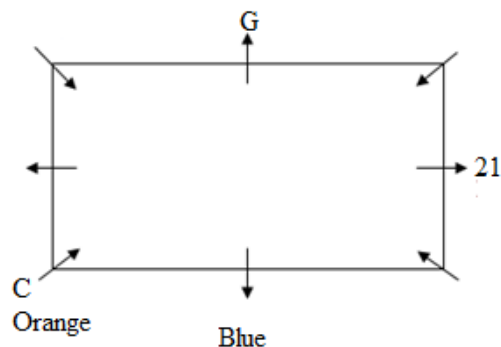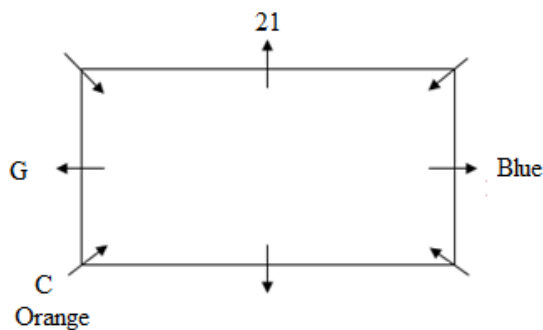
11. F sits second to the right of H

Here CASE 2 was eliminated because purple must in corner which is not possible in case 2.
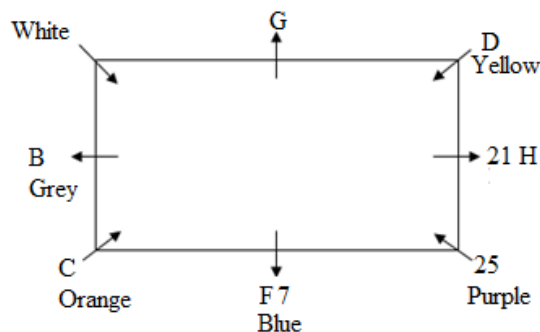
CASE 1

12. The one who likes Black colour sits second to the right of the one who is 32 years old.

13. Age of D is multiple of 5. (D's age is 15)

14. E is the oldest person of the group.(E's age id 40)

CASE 1
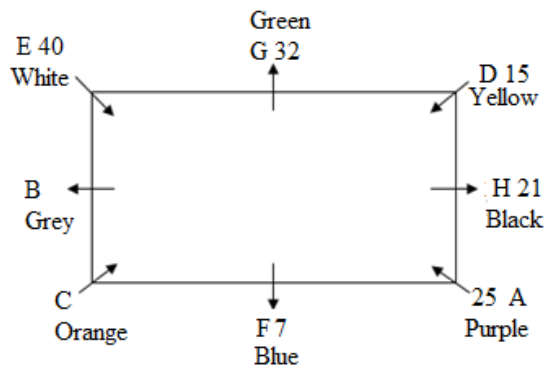
15. C is older than B. (C= 36years, B = 18years)

Final Arrangement

Green
G 32

E 40 White

D 15 Yellow

B18 Grey

H 21 Black

C 36 Orange

F 7 Blue

25 A Purple
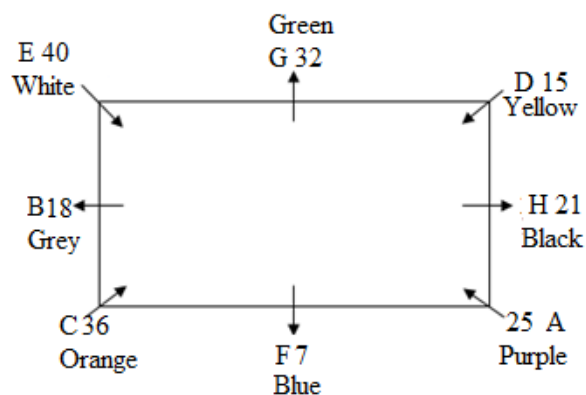
6.a

7.d

8.e

9.c

10.b

SOLUTION (11-15):

1. Y sits third to the right of W

2. W sits on one of the corners of the table.

3. The one who likes Hockey faces the Y

4. W is heaviest person among all friends. (W = 81kg)

5. Immediate neighbor of W's total weight is 122kg.

   So W's immediate neighbor's weight is

   | 56 + 66 = 122 kg |

Y

66/56

W, 81

Hockey
66/56
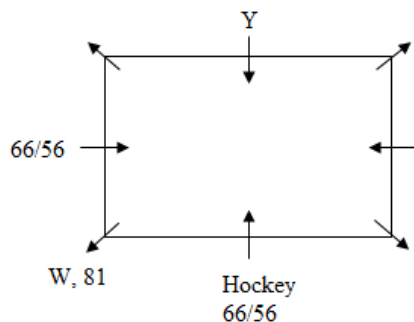
6. Only one person sits between V and Y.

7. T is one of the immediate neighbors of V.

8. U sits second to the right of T.

9. Total weight of U and W is 152kg. (W = 81 kg)

Here two cases for V

CASE 1
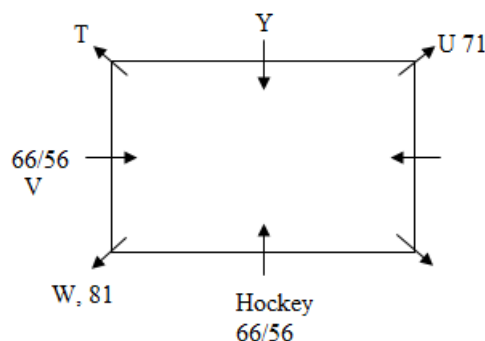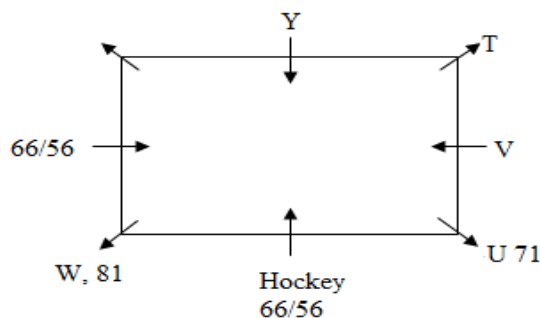
T

Y

U 71

66/56
V

W, 81

Hockey
66/56

CASE 2

Y

T

66/56

V

W, 81

Hockey
66/56

U 71

10. Only three persons sit between T and S and difference of their weight is 2kg and S is heavier than T.

11. Z sits to the immediate right of S.

From here case 2 eliminated because T sits opposite to S which is not possible in Case 2.

CASE 1
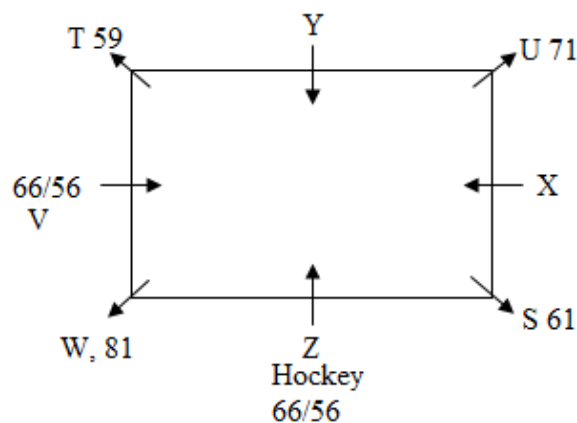
12. The one who likes Badminton is one of the immediate neighbors of X.
13. The one who likes Cricket sits immediate left of the person one who likes Badminton.
14. The person having 73kg weight sits between U and the person who like Badminton.
15. The one who faces the centre likes Cricket.

CASE 1
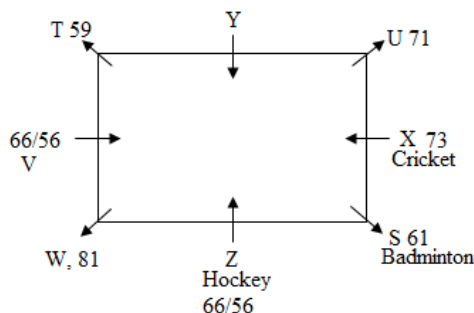
16. Total weight of immediate neighbor of T is 112kg.

    (V = 66 and Y = 46)

    $$66 + 46 = 112$$

17. T does not like Basketball.

18. The one who faces the outside of the centre likes Boxing.
19. The persons who like Basketball and Boxing sit on the corners and opposite to each other.
20. W does not like Boxing.

CASE 1
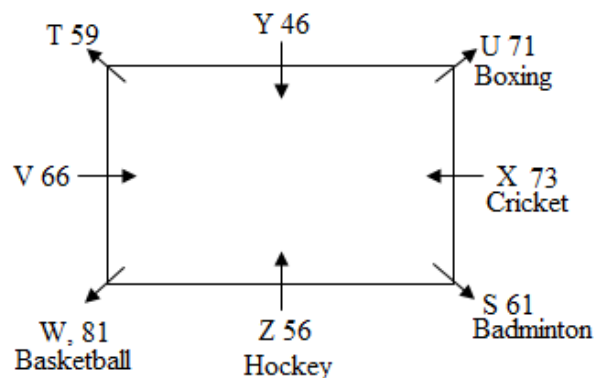
21. The person likes wrestling sit immediate right of the person who likes Tennis
22. The persons who like Wrestling and Football sit next to each other

CASE 1
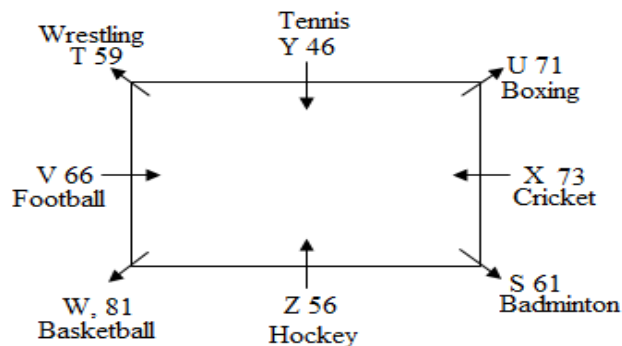
Final Arrangement
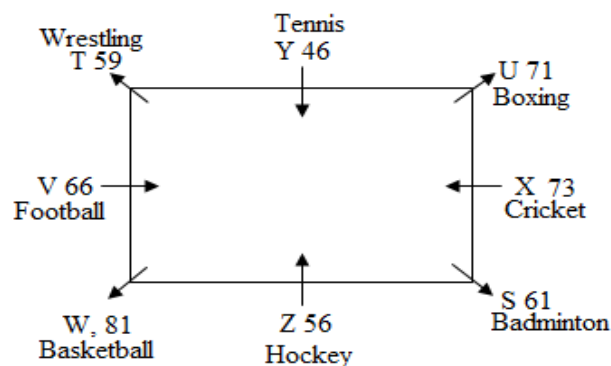
11. a

12. e

13. c

14. e

15. a

SOLUTION (16-20):

1. The one who is from Bangladesh sits immediate left of the person one who likes Joe Root but doesn't sit at corner of the table.

2. The person who likes Ricky Ponting sits third to right of the one who is from Bangladesh Team.

3. G likes Ricky Ponting, sits second to the right of the one who likes West Indices.
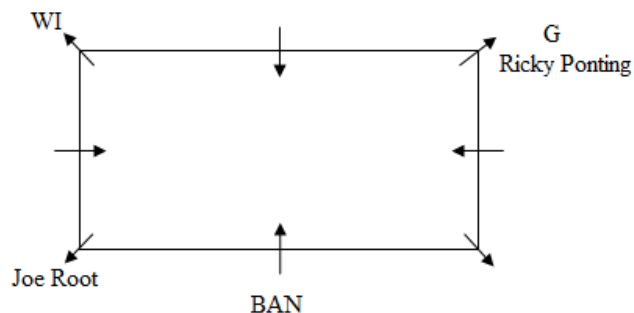
4. Only two persons sit between the person who is from West Indices and the one who likes Sourav Ganguly.

5. H, who neither likes Joe Root nor from New Zealand team but sits adjacent to the one who likes Sourav Ganguly.

Here two case for Sourav Ganguly

CASE 1
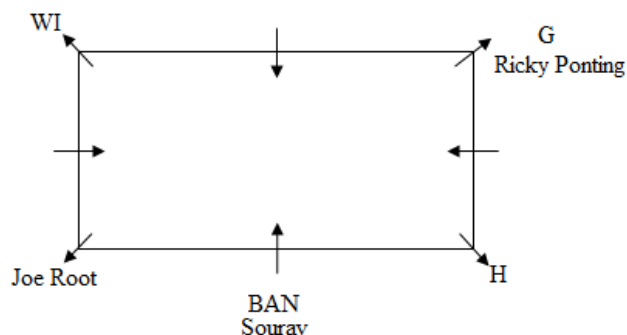
CASE 2
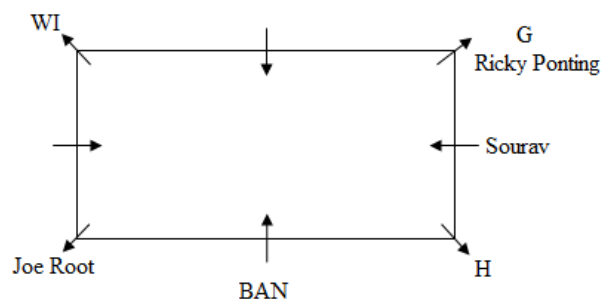
6. Only two persons sit between H and A, who is from Srilanka team but not sit adjacent to the person who either likes Joe Root or likes Shakib Al Hasan.

CASE 1
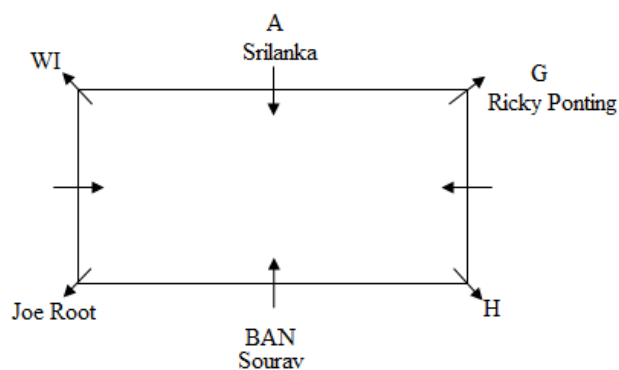
CASE 2
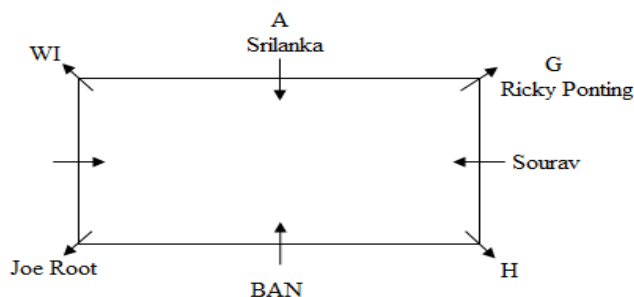
7. C is from New Zealand, sits second to the left of the person who likes Shakib Al Hasan.

8. Only two people sit between C and the one who is from South Africa.

9. The person who likes Kene williamson sits third to right of the one who is from South Africa.

10. The person who likes Crys Gale neither sits adjacent to G nor with the one who from Bangladesh but sits immediate left of the one who likes Kene Williamson.

11. Only two persons sit between H and A, who is from Srilanka team but not sit adjacent to the person who neither likes Joe Root nor likes Shakib Al Hasan.

Form here Case 1 eliminated because we cannot satisfy above 7, 8 and 9 points.

CASE 2
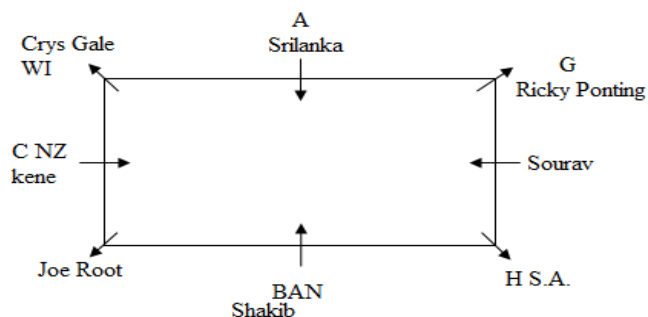
12. The One who likes Kumar Shangakara facing E

13. E and the person who is from England are immediate neighbors.

CASE 2
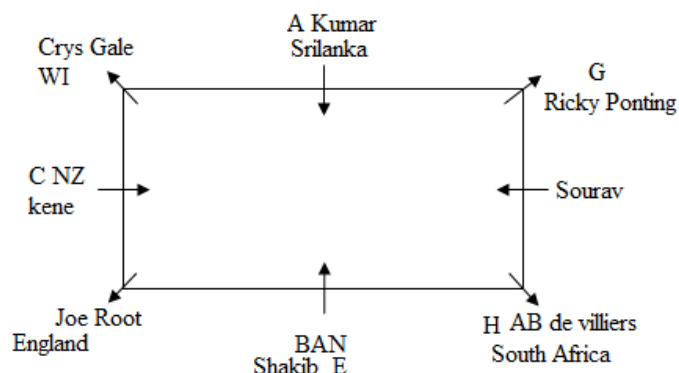
14. D, who doesn't sit adjacent to the person one who likes Kumar Shangakara and sits adjacent to the one who is from Australia.

15. B and the person from New Zealand are immediate neighbours.

16. F and the one who likes Shakib Al Hasan doesn't sit together.

Final Arrangement
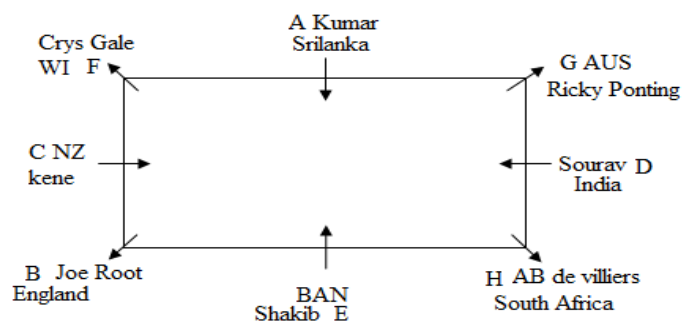
16. d

17. c

18. a

19. e

20. b

SOLUTION (21-25):

1. L sits opposite of the one who works in Oracle.
2. The one who live in Delhi sits immediate right of the one who works in Oracle.
3. The one who works in IBM sits immediate left of the one who works in Oracle.
4. O lives in Delhi.
5. O sits 3rd to the right of the one who works in Google who sits opposite side of the one who works in Microsoft.

CASE 1
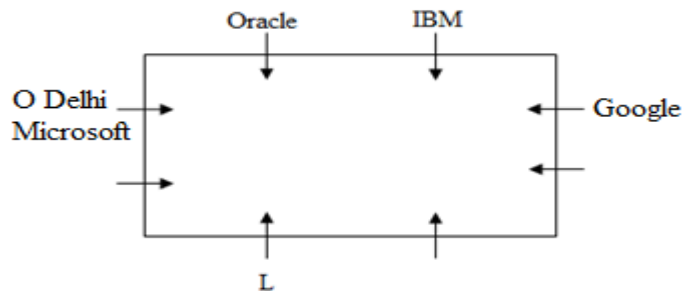
CASE 2
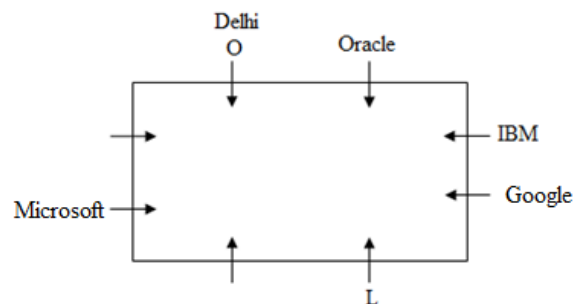
6. T sits 3rd right of the one who sits immediate left of L.
7. There are two members sit between L and K
8. C sits 2nd left of K who works in Tech Mahindra.

From here case 1 eliminated because we cannot place K as work in Tech Mahindra.

CASE 2
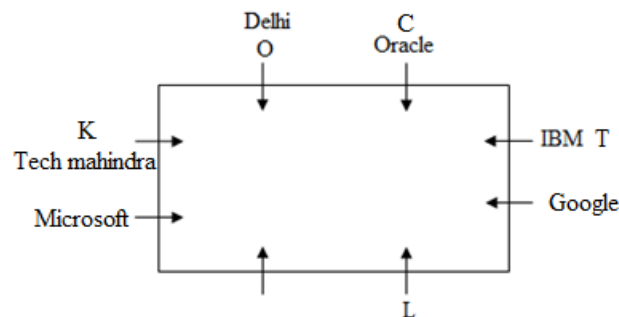
9. P sits just near to L.
10. P does not live in Raipur but sits opposite of the one who lives in Mumbai.
11. The one who works in Cognizant sits 2nd to the right to the one who works in Microsoft.

CASE 2
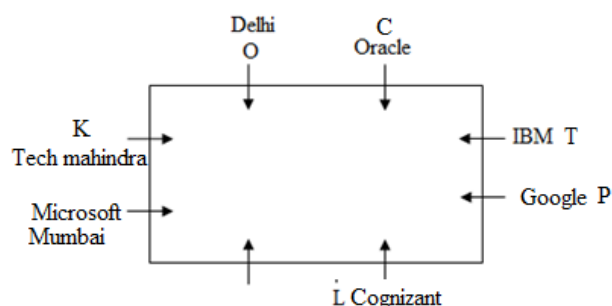
S

12. The one who works in Wipro sits 2nd to the left of N

13. The one who lives in Jaipur sits opposite side of the one who works in Cognizant.

14. The one who works in Patni Computers sits just opposite of that member who work sits in Wipro

15. P does not live in Raipur

16. There are two members sit between the one who live in Delhi and Raipur

CASE 2
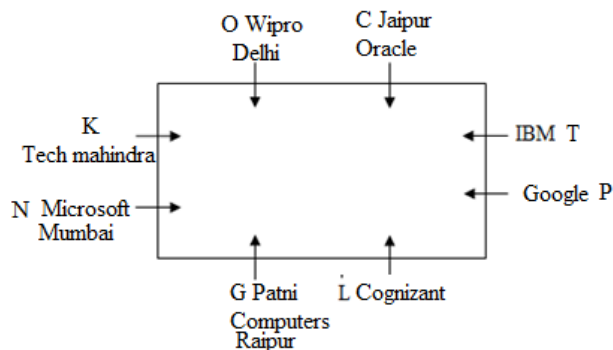
17. The one who lives in Indore sits immediate right of the one who lives in Chandigarh.

18. K does not lives in Chennai

CASE 2
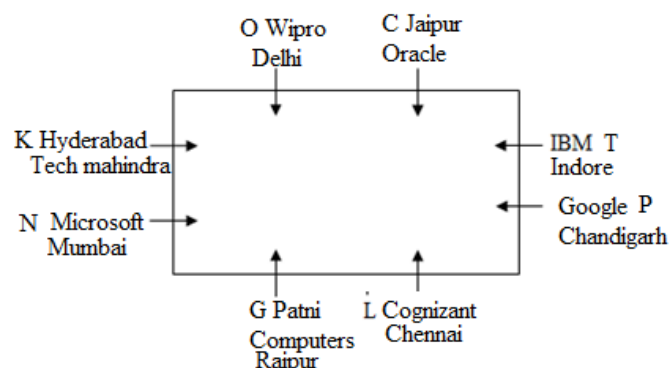
Final Arrangement
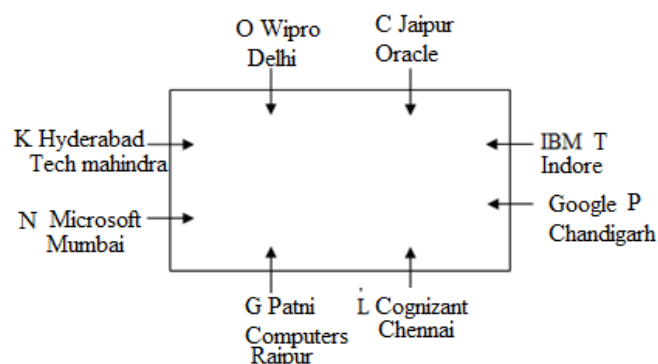
21.c

22.e

23.a

24.b

25.d

SOLUTION (26-30):

1. The one who sits at one of the corner of this table is going to open shop in August and sits 3rd left of the one who is going to open Medical shop.

2. There are two persons sit between C and the one who is going open shop in August.

3. K sits 2nd right of C who is going to open shop in April

4. C sits opposite to the one who is going to open shop in February.

Two cases for C

CASE 1
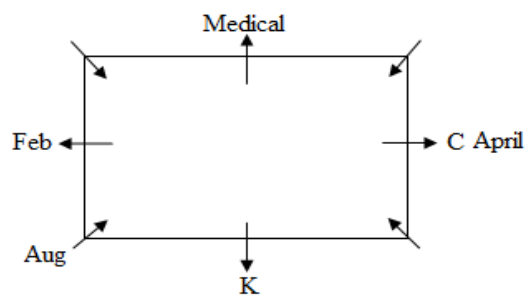
CASE 2
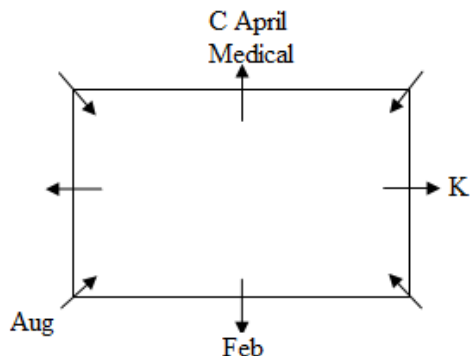
5. X who is going to open shop in December sits immediate right of C.

6. The one who is going open Electrical shop sits opposite to the one who is going open Stationary shop.

7. The one who is going to open Stationary shop sits near to X.

8. There are two Person sit between X and W who is going to open shop in January.

CASE 1
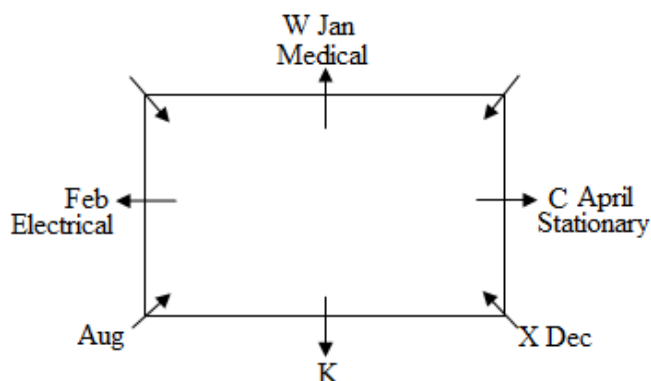
CASE 2
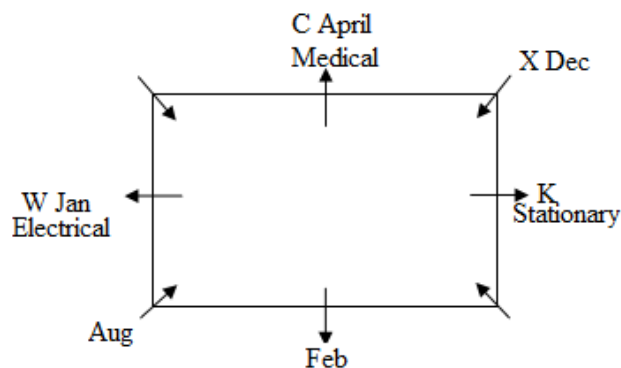
9. The one who is going to open shop in November sits 2nd to the right of F.

10. The one who is going to open shop in March sits 2nd left of the person who is going to open shop in that month which has less days compare to all other months.

11. The one who is going to open Bakery shop sits just near to F.

12. June month must be placed at remaining seat at corner of the table. So, O must also open the shop in month Feb.

CASE 1 eliminated because we cannot place F and November

CASE 2
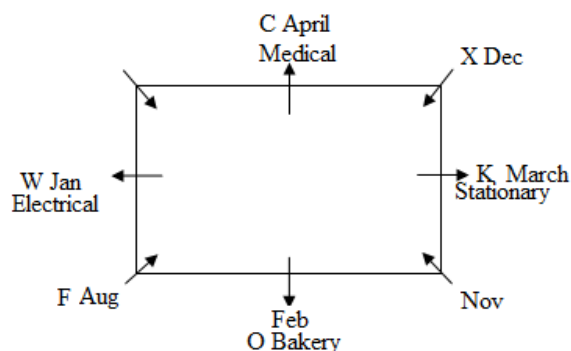
13. Z is going to open Liquor shop but sits diagonally opposite to the one who is going open dairy shop.

14. The one who is going to open Liquor shop does not sit near to W.

CASE 2
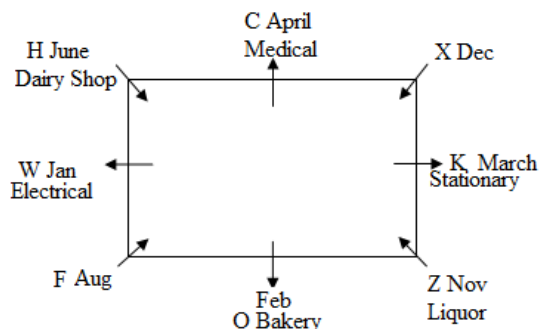
15. The one who is going to open shop in August does not want to open Gift shop.

CASE 2
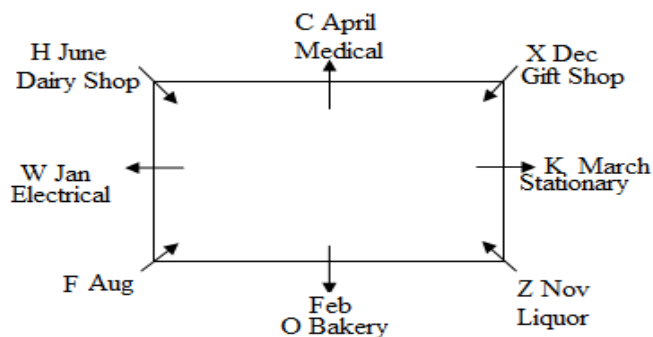
Final Arrangement
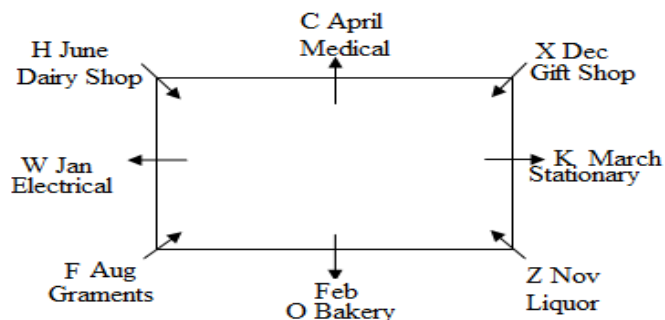
26.a

27.e

28.c

29.b

30.d

SOLUTION (31-35):

Blood Relation

1.   K is the wife of E.

2.   The daughter-in-law of E
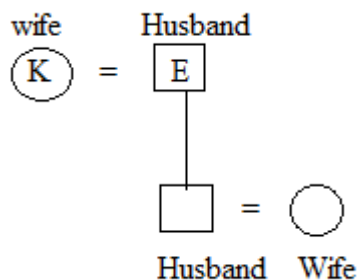
Figure 1

3.   K is the grandmother of L.

4.   L is 6 years elder than his wife.

From here it is clear that L is male
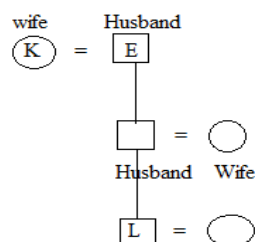
Figure 2

5. The daughter-in-law of I.

6. H, who is 34 years old, is son-in-law of I

7. The hobby of H's brother-in-law is Basketball.

From above two statements it is clear that I have two child.
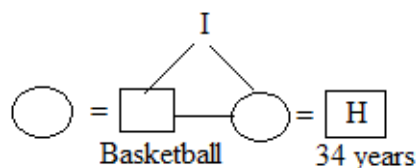
Figure 3

From Figure 1, 2 and 3 it is clear that I is in 2nd Generation

8. G's son-in-law, G is the father of F(means G and I are Husband wife)

9. J's father-in-law, husband of J(Means J is female)

10. F's husband (Means F is female)

Final Blood Relation is
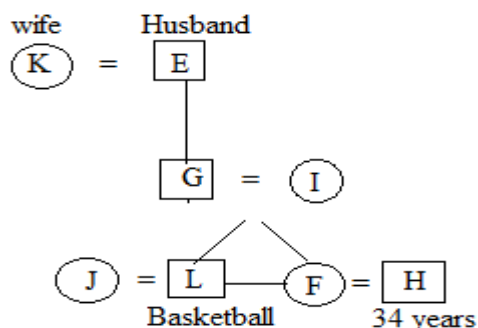
11. H, who is 34 years old and seated second to the right of K.

12. E is seated between L's grandmother (K) and wife of L (J).

13. The Person whose hobby is Football sits opposite to the person, who is immediate right of F's husband. (F's Husbad is H)

Two Cases for K

CASE 1
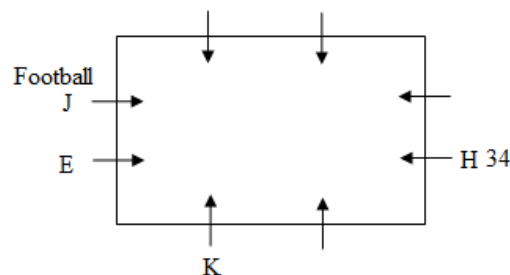
CASE 2
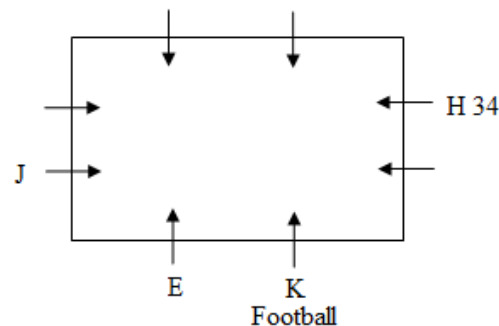
14. Each Wife is at least two year younger than her husband

15. The person whose hobby is Tennis sits second to the right of the person, who is 80 years old

From here it is clear that E Eldest so His age is 80years and K is 78 years because difference between Husband and wife is at least 2 years.

CASE 1
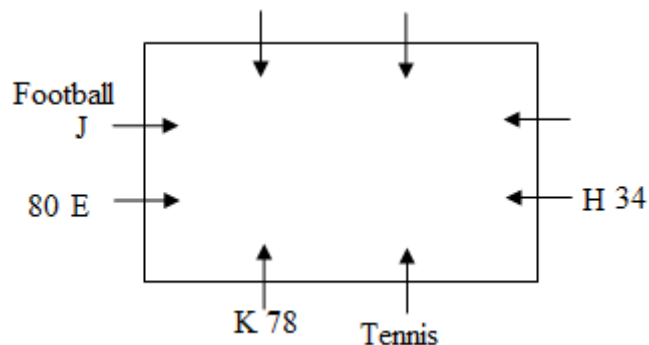
CASE 2
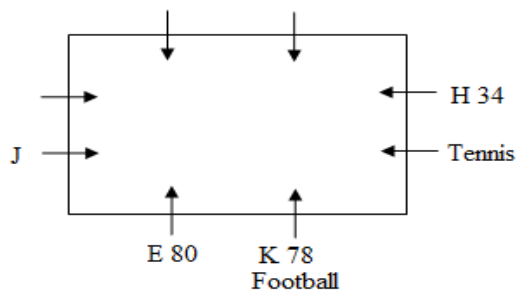
16. The hobby of H's brother-in-law is Basketball which is L

17. The person whose hobby Cricket, is immediate neighbor of the persons, whose hobby is Chess and the one, who is husband of J.(Husband of J is L)

18. K does not sit opposite to L

CASE 1(Only one couple can sit together so K and E sits together only)
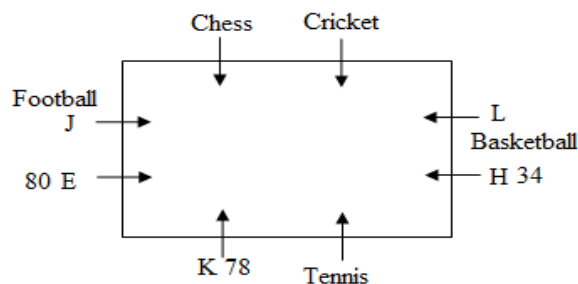
CASE 2(Only one couple can sit together so K and E sits together only)
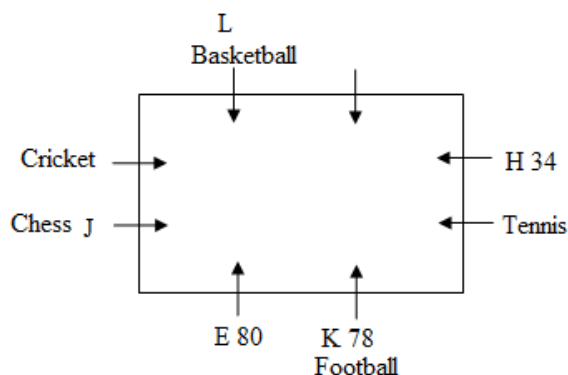
19. The age of E is 2.5 times the age of F.

From here we can find the age of F as E's Age is 80

$$E = 2.5 * F$$
$$80 = 2.5 * 32$$
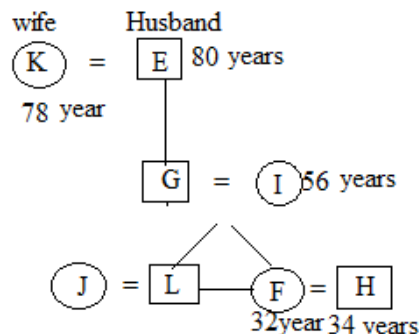
From above Blood relation diagram it is clear that age L or J is 36

20. The person who is 36 years old is seated second to the left of J's father-in-law who is G.

From here Case 2 was eliminated because we cannot place G and 36.

CASE 1
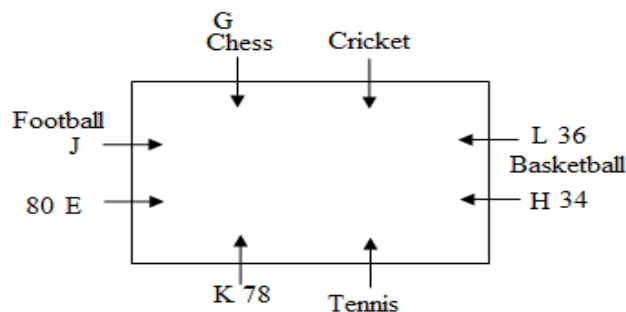
21. L is 6 years elder than his wife. (L's wife is J so L's age is 36 so J's age is 30)

Age of G is 58years because difference between husband and wife is atleast 2 year and each parent is at least 20 years elder than his/ her child.
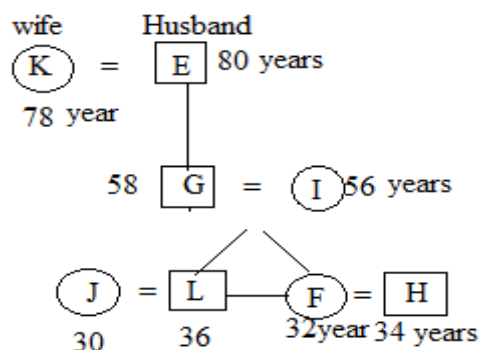
22. The daughter-in-law of I is not near to her

Only One Couple Sits together so I is not immediate neighbor to G because K and E sits together
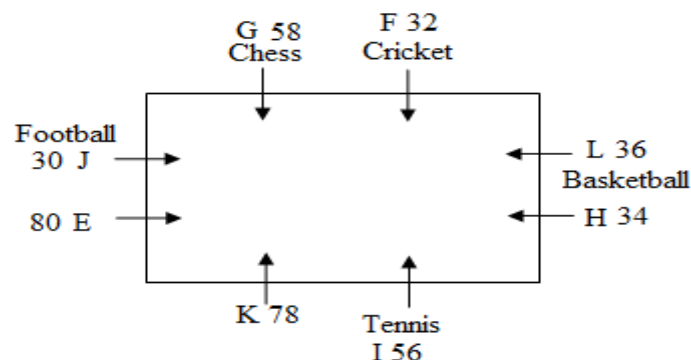
23. The hobby of the person whose age is 78 years is neither TT nor Volleyball.(K's hobby is Hockey)

24. The hobby of L's grandfather is not Volleyball.

Final Arrangement
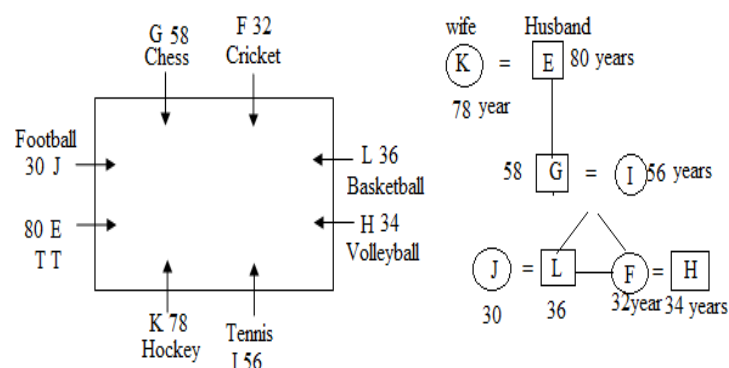
31.b

32.c

33.a

34.d

35.e

SOLUTION (36-40):

1. D and C are sitting third and second to the left of A respectively who faces outside.

2. D and G are neighbours of B, who likes AP.

3. The one who likes PB sits on the immediate right of B.

4. G is sitting third to the right of A and likes CB.

5. The one who likes AP has a bucket of 5 ltrs

From here we can find that there are 2 cases for A

CASE 1
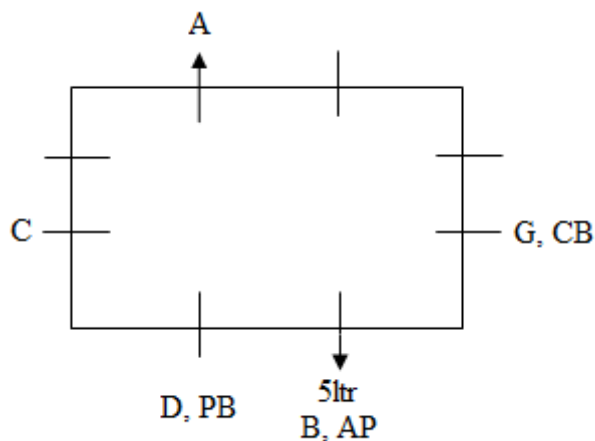
CASE 2
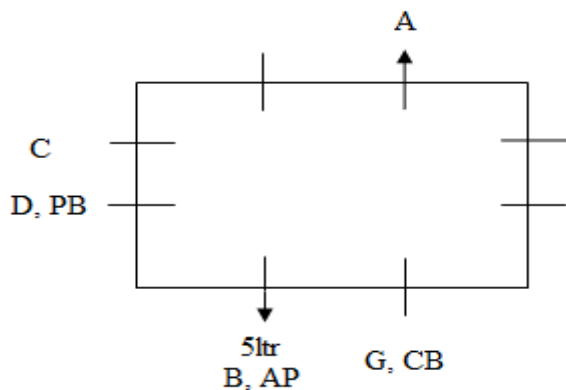
6. Two of them are facing outside while rest is facing towards centre.

7. H is third to the right of E and likes EN.

From 6th point A and B faces outside in both cases and all other person faces inside.

CASE 1
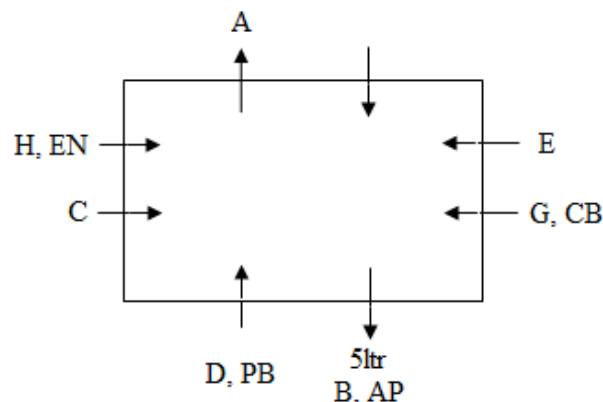
CASE 2
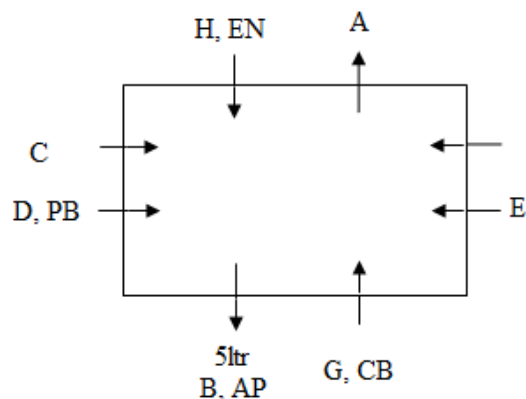
8. The person who likes IG is immediate neighbour of the one who sits sitting opposite E.

9. Both the immediate neighbours of E have buckets of 3 ltr Capacity

10. The sum of total capacities of the buckets of the immediate neighbours of A is greater than 6 but less than 10.

Here possible sum of immediate neighbor of A is 7, 8 and 9 but we cannot make sum 7 and 9 from 3, 5 and 8 so sum is 8 only by adding 3 and 5.
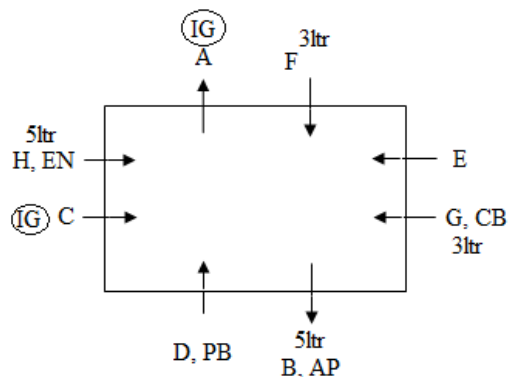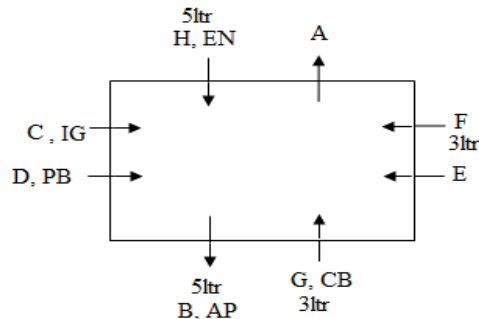
CASE 1

CASE 2

11. The difference between the volumes of buckets of B and the one who likes VS is the same as the number of persons sitting between them.

12. F does not like VS and PB.

CASE 1
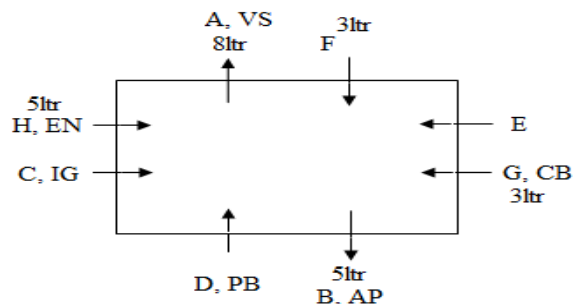
CASE 2
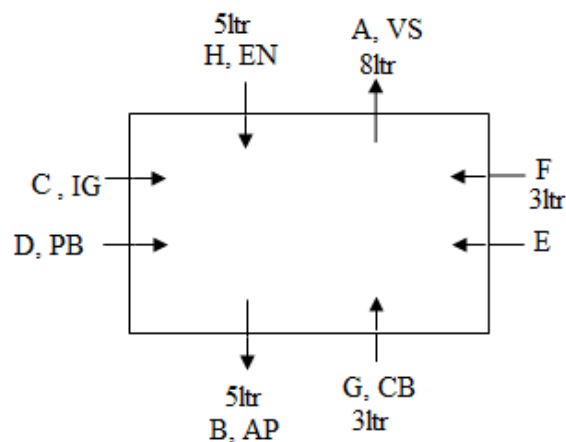
13. A and H are not the neighbor of that person who likes BJ.

14. The capacity of the bucket of the person who likes IG is not the highest but greater than that of his immediate right neighbour.

CASE 1
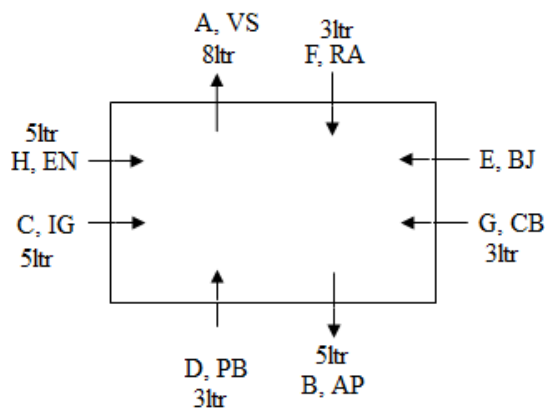
CASE 2
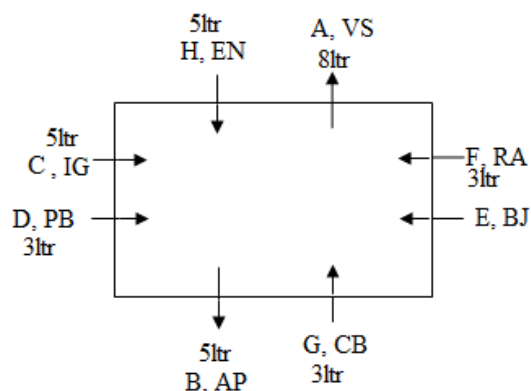
15. The peeson who like RA does not faces AP.

From here CASE 1 eliminated because RA faces AP.

16. Total volume of all the buckets of these eight friends is 40 ltr. (total 40 – all bucket's volume = 8 ltrs for E.)

So Final Arrangement
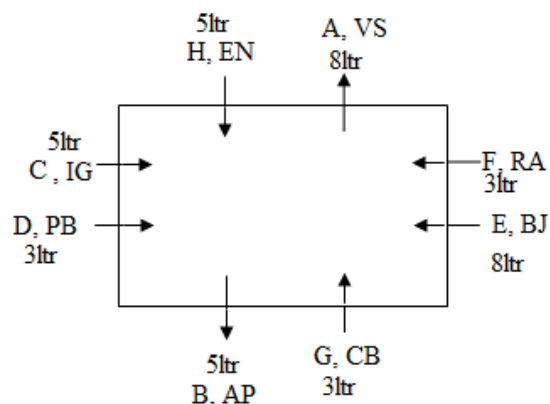
36.d

37.b

38.e

39.a

40.c

SOLUTION (41-45):

1. P sits third to the right of Managing Director.

2. Only two people sit between the Managing Director and W.

Here two cases for Managing Director.

CASE 1
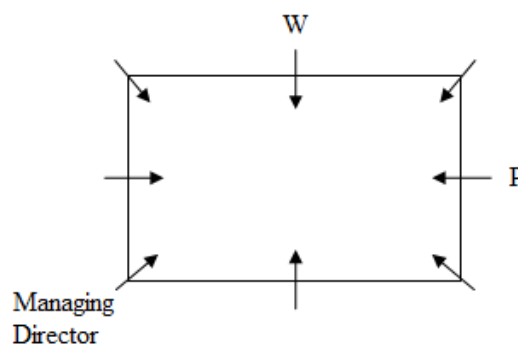
CASE 2
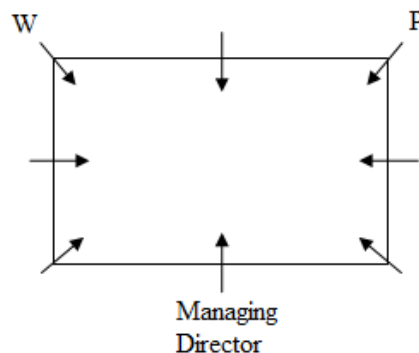
3. The Vice – President and the Company Secretary are immediate neighbors of each other.

4. Neither P nor W is a Vice – President or a Company Secretary.

5. Vice –President is not an immediate neighbor of the Managing Director.

6. Here two more Cases for Vice President and Company Secretary.

CASE 1a
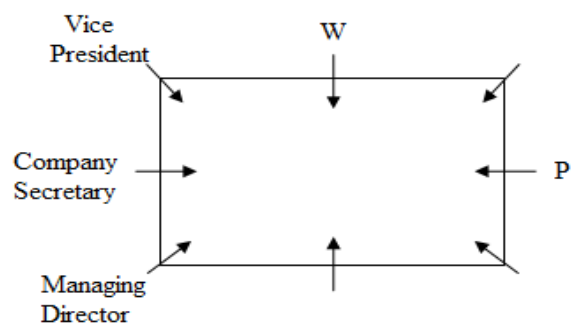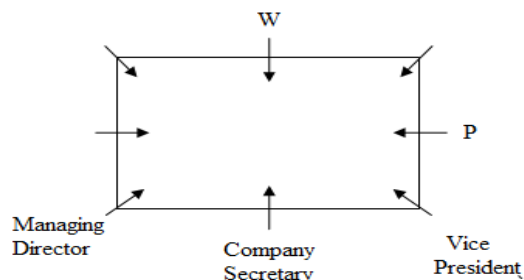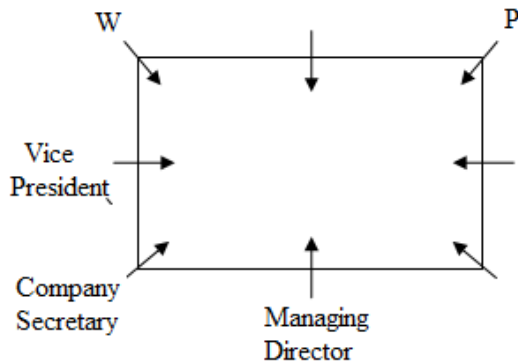
CASE 1b

CASE 2a

CASE 2b
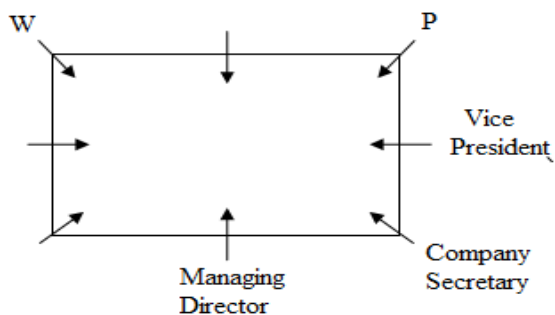
7. The Manager sits second to the left of T and does not sit at corner of the table.

8. T is not an immediate neighbor of W.

9. The Manager is an immediate neighbor of the both Group Leader and the Financial Advisor.

CASE 1a eliminated because 8th point not satisfying.

CASE 2a eliminated because we cannot place T.

CASE 1b
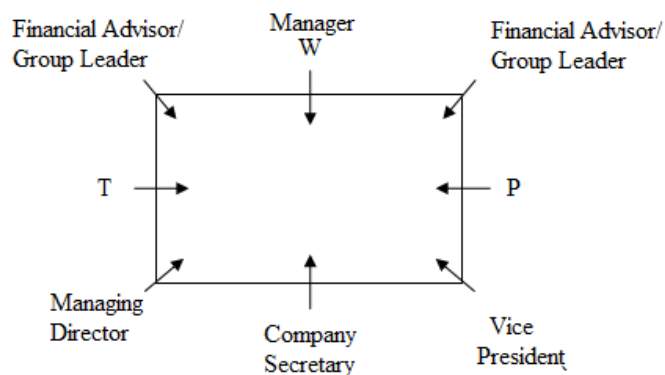
CASE 2b
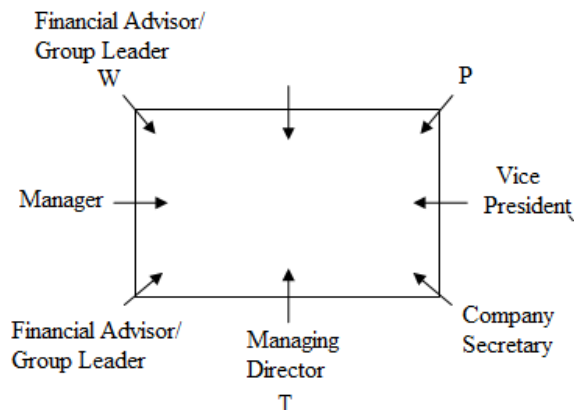
10. R sits on the immediate right of the Chairman.

11. P is not the Chairman

12. The Financial Advisor sits third to the right of Q.

13. Q is not the Vice – President

From here CASE2b eliminated because we cannot place R and Chairman.

CASE 1b
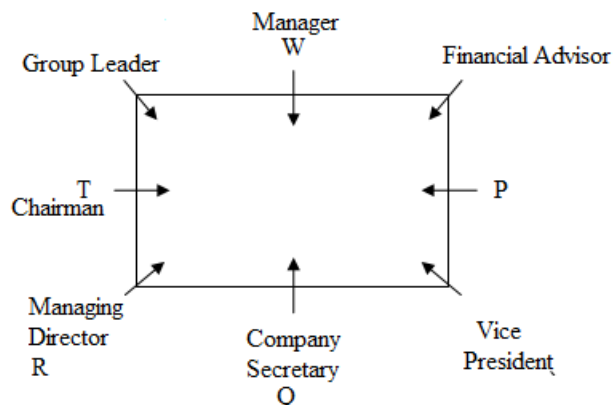
14. President faces the person who likes Spider-Man.

15. Q likes Titanic.

16. Financial Advisor faces the person who likes Finding Nemo.

17. U is not an immediate neighbor of P.

18. V is not an immediate neighbor of the Manager.

CASE 1b
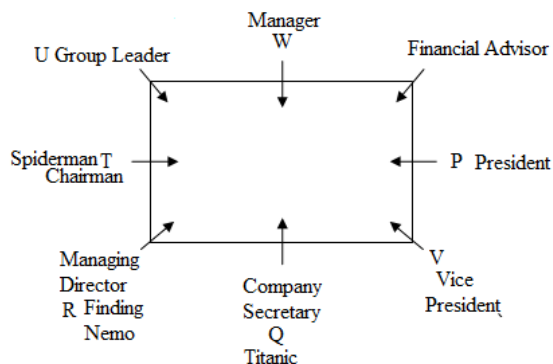
19. The person who likes Avengers sits immediately right to the person who likes Avatar and faces Jurasic Park.

20. The person who likes Superman sits exactly in the middle between the persons who like Batman and Avatar.

CASE 1b
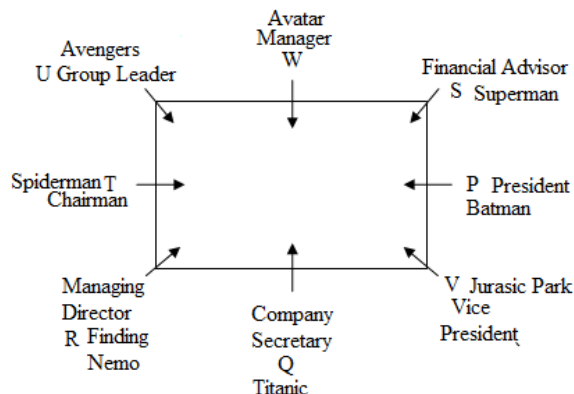
Final Arrangement

CASE 1b
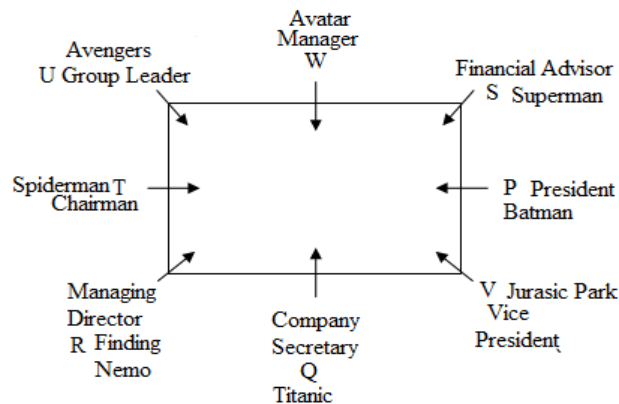
41.b

42.a

43.e

44.a

45.d

SOLUTION (46-50):

1. The student who is from IIT Guwahati is sitting on the immediate right of the student who is from IIT Indore.
2. Only IIT Chennai Student S is sitting between the participant W, who is from Guwahati and IIT Goa participant
3. T is sitting opposite to W.
4. T who is from IIT Delhi is neither in reasoning group nor in the subject group of General Knowledge and Math's.

Here two cases for Indore and Guwahati

CASE 1

T, English
IIT Delhi

IIT Goa

S
IIT Chennai

IIT Indore

W,
IIT Guwahati

CASE 2

IIT Goa

S,
IIT Chennai

W,
IIT Guwahati

T, English
IIT Delhi

IIT Indore
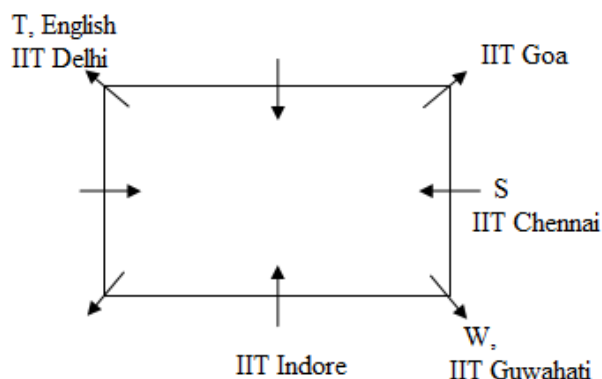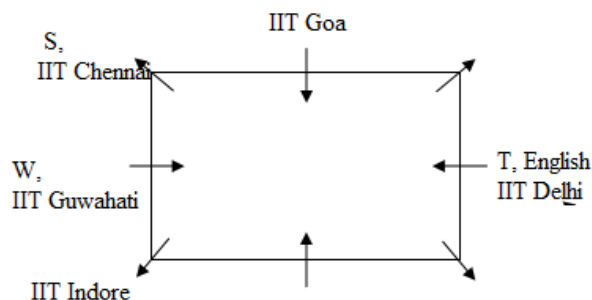
5. No two students of the same subject group are sitting adjacent to each other except those who belong to English group.(From here it is clear English group sitting next to each other)
6. U, who is in the IIT Bhilai, is in General Knowledge group and she is sitting on the immediate right of Y, who is in group English.
7. Y is neither from IIT Kharagpur nor IIT Indore.

CASE 1
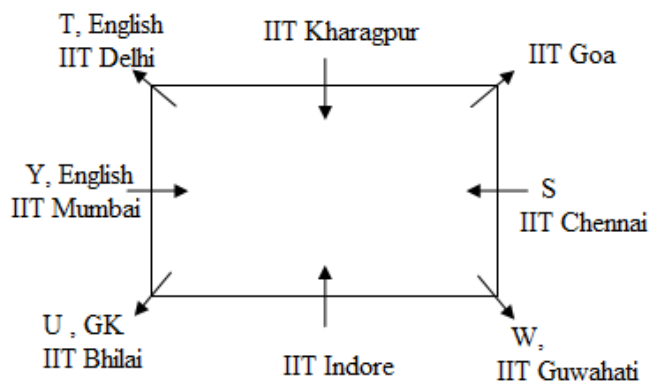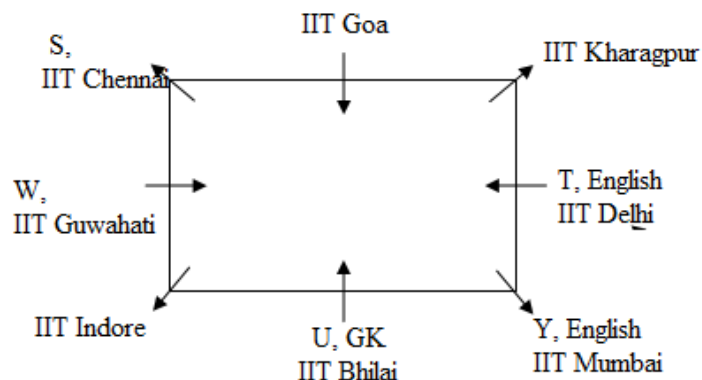
T, English
IIT Delhi

IIT Kharagpur

IIT Goa

Y, English
IIT Mumbai

S
IIT Chennai

U , GK
IIT Bhilai

IIT Indore

W,
IIT Guwahati

CASE 2

IIT Goa

S,
IIT Chennai

IIT Kharagpur

W,
IIT Guwahati

T, English
IIT Delhi

IIT Indore

U, GK
IIT Bhilai

Y, English
IIT Mumbai

8. V is neither in IIT Indore nor in IIT kharagpur and does not sit at any corners.

9. X is not the neighbour of V.

From here Case 1 eliminates because Place for V is at corners

CASE 2
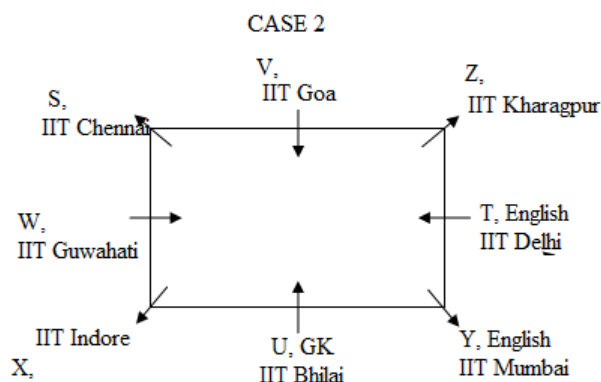
10. Both the students of subject group Mathematics are sitting Immediate Right of the students of subject group Reasoning.

11. The students of Mathematics group do not sit at middle of the side.
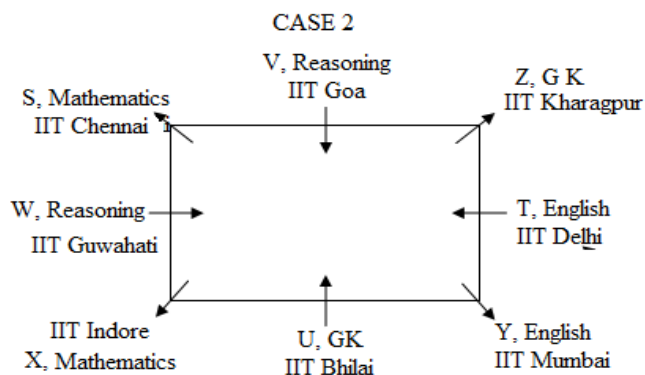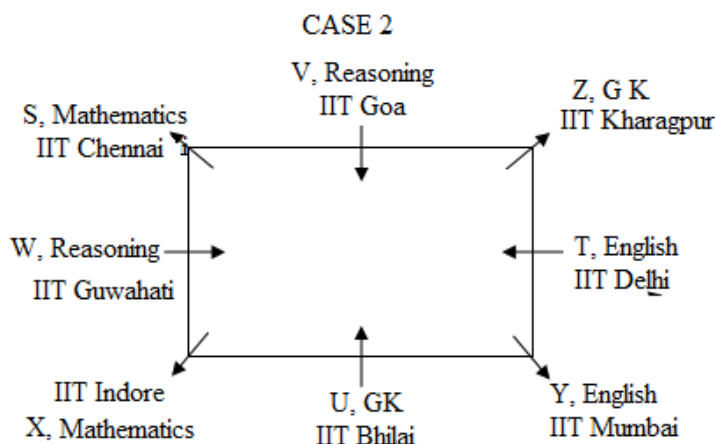
CASE 2

Final Arrangement

CASE 2

46. a
47. d
48. a
49. b
50. e

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Seating Rectangle / Square New Pattern

Directions: Answer the given questions based on the information given below.

Sixteen persons are sitting around the two square tables. One square table is inscribed in another. Two persons sit on each side of the table. The persons on the inner table have different number of balls while the persons on outer table like different colours. P, Q, R, S, T, U, V and W sit on one table while A, B, C, D, E, F, G and H sit on another table. Each of the persons on both tables is facing the closest person opposite to them on different tables such that the persons on inner table are facing outwards while persons on outer table are facing inwards. Persons on inner table have different number of balls from 1 to 8. Also, persons on outer table like different colours among, red, black, pink, yellow, white, grey, blue and green.

Note: If A is facing B then both are sitting opposite to each other on the different tables but on the nearest seat.

p sits opposite to one, who sits to the immediate left of R, who has 3 balls. Both P and R are sitting on the opposite sides of the same table. The persons facing R is three places away from D. W has twice number of balls of S, who has 3 balls more than Q. Q faces E, who likes yellow color. U sits to the immediate right of V, who has 7 balls, on the same side. A, who likes white color, faces U, who has 6 balls. E does not sit adjacent to A or C and Q is not adjacent to R. C, who likes green color, sits second to the right of A. G sits to the immediate right of F, who likes red color and both sit on the same side. V has 2 more balls than T, who does not face G. The one, who has 4 balls, faces B, who likes Pink. S is not adjacent to P, who is not to the immediate right of T. G does not like Grey or Blue color.

1) Who among the following likes black color?
a. F
b. H
c. G
d. C
e. None of these

2) How many persons sit between P and V when counted from the left of P?
a. Three
b. Two
c. Four
d. Five
e. None of these

3) Who among the following faces S?
a. The one, who likes green color
b. B
c. The one, who likes blue color
d. A
e. None of these

4) Who among the following sits second to the right of T?
a. W

b. The one, who has 3 balls

c. The one, who has 7 balls

d. The one, who has 4 balls

e. None of these

5) Who likes grey color?

a. H

b. D

c. G

d. F

e. Cannot be determined

Directions: Answer the questions based on the information given below.

Eight members, A, B, C, D, E, F, G and H of a family are sitting at the corners and on the middle of the sides of a square. The number of persons facing the centre is less than those who are facing away from the centre. There is no single parent in the family.

A 3@ means person sitting 3rd to the right of A is the father of A.

A # means A is sitting opposite to his/her mother.

A% means Person sitting opposite to A is not the male member.

Two persons are sitting between F and C, who is not sitting at the corners and both of them are facing in the opposite directions from each other. E is sitting 2nd to the right of C. D is sitting 2nd to the right of E, who is married to F. One person is sitting between H and G, who is sitting adjacent to B, who is sitting opposite to his only sister. H is not sitting adjacent to D. A is not sitting adjacent to B.

Immediate neighbors of D are facing the opposite direction of D. Person sitting opposite to A is not facing away from the centre. C is the only brother of A. A is married.

B 3@ A# G%

6) How many persons are sitting between B and C, when counted from the left of B?

a. 1

b. 3

c. 4

d. 5

e. None of these

7) Find the odd one out.

a. EA

b. DF

c. GE

d. BG

e. CH

8) What is the position of C's father with respect to B's grandmother?

a. 3rd to the right

b. 4th to the left

c. 2nd to the right

d. 3rd to the left

e. None of these

9) Who is sitting opposite to the father in law of the only brother in law of B?

a. A

b. B

c. G

d. H

e. F

10) How is E related to the person sitting opposite to D?

a. Daughter

b. Niece

c. Daughter in law

d. Sister

e. None of these

Directions: Read the following information and answer the questions given below.

A certain number of persons are sitting around a square table. Four persons are sitting at the corners and others are sitting at the sides of the table. Number of the persons facing the centre is equal to the number of the persons facing away from the centre. Three persons are sitting on at least one of the sides. The area of the square is 900m2. Only one person sitting at the corners is facing away from the centre.

Distance between I and one of the corners of the side on which I is sitting is 10m and there is no one sitting between them. Distance between K and G is 2m more than the distance between I and F. K is the immediate neighbor of G but both of them doesn't sit at the corner. One of the immediate neighbors of K is sitting at the corner. Both G and K are facing the direction as E. Two persons are sitting on the side, which is opposite to E. H is sitting 2nd to the left of D and both of them are facing the opposite

direction. Immediate neighbors of H are facing the opposite direction of H. B is sitting 2nd to the right of H. Distance between the persons sitting on the side opposite to the side on which G is sitting is increasing consecutively from 6. Both the immediate neighbors of E are sitting at the corners and E is sitting exactly in the middle of one of the sides. L is sitting adjacent to B and the distance between them is 9m. A is sitting opposite to D. F is sitting 2nd to the right of K. F and I are sitting on the same side. D is sitting adjacent to I. Distance between D and F is 20m. Distance between A and G is equal to the distance between F and I. Immediate neighbors of A are facing the opposite direction of A. G is sitting 2nd to the right of E.

11) What is the position of F with respect to H?

a. 3rd to the left

b. 4th to the right

c. 2nd to the left

d. 5th to the right

e. None of these

12) How many persons are sitting on the side of the table on which L is sitting excluding L?

a. 2

b. 1

c. 3

d. Either (a) or (b)

e. None of these

13) How many persons are sitting on the side of the table on which H is sitting?

a. 1

b. 2

c. 3

d. Either (a) or (b)

e. None of these

14) How many persons are sitting on the sides of the table?

a. 11

b. 12

c. 14

d. 9

e. 8

15) What is the total distance between A and L to the right of A?

a. 41

b. 42

c. 34

d. 39

e. 37

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

Eight persons A, B, C and D (Boys) and E, F, G and H (girls) go out for a restaurant and sits around a square table.Two people sit on each side of the table such that one is a boy and the other one is a girl. Also each person wears a shirt of different colour viz. red, blue, black, white, yellow, orange, green and pink.

B and C sit next to each other. D sits opposite to B, between the persons with gender opposite to that of him.

A and F sit together facing in the south direction. F wears red shirt and A does not wear orange coloured shirt. G wears black and sits next to the person wearing yellow coloured shirt. H wears white shirt and is sitting between the persons wearing blue and orange coloured shirts. E sits opposite to A and the person next to E wears green coloured shirt.

16) If person wearing pink shirt sits to the right of the person wearing orange shirt then who sits to the immediate left of the person wearing black shirt?

a. F

b. B

c. H

d. E

e. None of these

17) Who sits to the immediate left of the one who wears green shirt if A sits to the immwdiate right of F?

a. A

b. B

c. C

d. D

e. E

18) Which direction is G facing if he is seated to the immediate left of B?

a. North

b. East

c. West

d. South

e. Cannot be determined

19) How many people sit between F and the one who is wearing blue shirt on the same side?

a. Zero

b. One

c. Two

d. Three

e. Four

20) Which coloured shirt is the person wearing who is sitting diagonally opposite to D?

a. Red

b. Black

c. Yellow

d. Orange

e. None

Directions: Study the following information carefully and answer the questions that follow:

Eight people P, Q, R, S, T, U, V and W are sitting in a rectangular manner and facing the centre and 4 sits at the corner of the table while 4 sits at the middle of the table. Each of them is fans of different superheroes among Aquaman, Batman, Captain America, Hulk, Iron man, Superman, Thor and Wonder Woman. The distance between them is either single or two digits perfect square or perfect Cube. Also, all the distances are greater than 3 units.

Further, it is given that

1. The distance between the persons who are fans of Thor and Aquaman is both a perfect square and a perfect Cube.

2. Q is sitting third to the right of the person who is a fan of Thor.

3. The sum of distances between Q's neighbours is 91 units.

4. The distance between V and the person who is a fan of Superman is 64 units and there is no one between them. Also, V is not a fan of Captain America.

5. The persons who are fans of Aquaman and Hulk are sitting opposite to each other.

6. W is a fan of Ironman but he is not sitting next to the person who is a fan of Thor or Superman.

7. The distance between the persons who are fans of Superman and Batman is 27 units which are 11 units more than the distance between the persons who are fans of Batman and Aquaman. There is no one between superman and batman as well as batman and Aquaman.

8. The distance between P and the person who is a fan of Captain America is minimum among them.

9. Three persons are sitting between S and R but S is not a fan of Hulk.

10. The distances of R with his neighbours are 27 units and 16 units and U is not a fan of Batman.

21) Who among the following is the fan of Wonder Woman?

a. R

b. V

c. W

d. P

e. Can't be determined

22) What is the minimum distance between the persons who are fans of Superman and Aquaman?

a. 43

b. 27

c. 49

d. 130

e. None of the above

23) Who is sitting second to the left of the person who is a fan of Thor?

a. Q

b. W

c. T

d. S

e. R

24) If U and R exchange their positions with Q and T respectively then who will be sitting second to the right of R?

a. T

b. Q

c. R

d. W

e. None of the above

25) How many persons are sitting between P and V when counted from the left side of V?

a. Two

b. One

c. Five

d. Three

e. Four

Directions 26-30: Study the following information carefully to answer the given questions:

Eight persons are sitting at the corners and on the middle of the sides of a rectangluar arrangement. They are facing different directions – 5 facing away from the center and 3 facing towards the center. They belong to eight different states - Haryana, Gujarat, Punjab, UP, MP, HP, Kerala and Delhi. They play eight different sports- Basketball, Football, Golf, Hockey, Badminton, Cricket, Tennis and Volleyball. They have visited eight different rivers - Nile, Amazon, Thames, Yangtze, Danube, Ganga, Yamuna and Brahmaputra.

E is sitting opposite to F but not facing each other. B is sitting opposite to H and not facing each other. F doesn't play Tennis, Badminton and Cricket. The person sitting adjacent to G is from UP and plays Volleyball. C sits second to adjacent of F in clockwise direction. The person sitting adjacent to H plays Tennis. G sits opposite to C and are facing each other. The Basketball player sits between C and E. H is sitting between C and F. The person sitting between C and F is from Kerala and plays Hockey. B and D are not from UP or HP. The persons sitting adjacent to F faces same direction as B. H sits opposite to cricket player. The tennis player is from MP. The Delhi player sits between persons from Punjab and UP. The Basketball player sits adjacent to Football player who is from Gujarat. The tennis player has visited River Thames. The person from Punjab has visited River Yangtze and person from HP has visited River Amazon. The hockey player

has visited Yamuna. E and D has not visited Nile, Yamuna or Brahmaputra. B sits between persons who have visited Nile and Ganga. D faces inside. Only one person sits in the corner facing inside.

26) Who has visited River Ganga?

a. F

b. A

c. Football player

d. Person from Punjab

e. G

27) Who sits between B and A?

a. E

b. Person who has visited River Brahmaputra

c. Person from UP

d. F

e. Person who has visited River Nile

28) Which of the following pair is incorrect?

a. F – Tennis

b. H – Yamuna

c. A – UP

d. C – Thames

e. D – Basketball

29) Which of the following statement is correct?

a. E is a football player from Punjab

b. F is from HP and has visited River Amazon.

c. C is a Tennis player from UP.

d. B has visited River Brahmaputra.

e. A is a Volleyball player from Haryana.

30) Who is a Badminton player?

a. A

b. C

c. G

d. E

e. D

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

Eight friends A, B, C, D, E, F, G and H are sitting around a rectangular table, but not necessarily in the same order. All friends are facing the centre and four of them sits at the corner while another four sits middle of the table. Each person has different salaries i.e.15000, 19000, 16000, 32000, 12000, 70000, 40000, and 60000 and are of different ages 20, 26, 56, 40, 34, 54, 43 and 30 years but not necessarily in the same order.

There is an angle of 135° between A and G.B's salary is double of H's but less than D's salary. There is an angle of 90° between A and H. F sits at 135° clockwise direction to B. The average of B and D's age is equal to the age of G. Salary of the one, who sits 2nd to the right of B is divisible by 4000. D is not an immediate neighbor of the person who is third to the left of A. G's salary is thousand rupees less than 1/3rd of A's salary. There is an angle of 180° between B and the one whose age is 54 years. C's salary is third highest salary among all the salaries. There is an angle of 180° between F and E, whose salary is divisible by 3000 but not 12000. B sits at 90° clockwise direction of A. E is the youngest in the group. Only two pair is sitting diagonally opposite to each other has age

difference of 6 years. The salary of C is 1000 multiple of its age. The one who have the highest salary is third youngest in the group.

31) Who is sitting immediately left of G?

a. C

b. D

c. A

d. W

e. B

32) Whose salary is least among the eight persons?

a. B

b. G

c. E

d. H

e. F

33) Which is the correct combination?

a. D – 70000 – 30

b. A – 15000 – 20

c. E – 32000 – 56

d. H – 12000 – 26

e. None of these

34) What is B's age?

a. 56 years

b. 43 years

c. 34 years

d. 54 years

e. 26 years

35) What is the difference in salary of B and A?

a. 10,000

b. 20,000

c. 30.000

d. 28,000

e. 15,000

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

There are eight members P, Q, R, S, T, U, V and W in a family which consists of three generations and two married couples on each in first and second generation. Each of these members sits around a square shaped table such that four sit at the corners and four along the middle of the edges facing towards the centre. Each of them has different hobbies among Writing, Reading, Gardening, Dancing, Swimming, Surfing, Mountaineering and Playing.

The son-in-law of the person, who likes writing, sits to the immediate left of Q and along one of the edges. Q is married but doesn't have any daughter. Mother of the person who likes Gardening, sits 3rd to the right of the one who likes writing. Father of the person who likes Gardening, sits 2nd to the right of V, who is a female. V sits at one of the corners of the table. S is the only brother of V and sits to the immediate left of V. One person sits between S and W. P sits to the immediate left of the person, who likes Reading who has only two child. U sits opposite to P. W is one of the two sons of the person, who likes Reading. T likes Swimming. Person who likes Surfing sits to the immediate right of T. Two persons sit between the persons who like Surfing and

Mountaineering. Neither S nor V likes Dancing. If S is present in the generation of the one who likes writing, then there is only one person in 3rd generation and two males in 2nd generation. P is father of guardning

36) How is U related to the person who likes Mountaineering?

a. Son

b. Brother

c. Father

d. Nephew

e. None of these

37) What is the position of S with respect to the person who likes Dancing?

a. Immediate right

b. 2nd to the left

c. 3rd to the right

d. 2nd to the right

e. None of these.

38) Who sits opposite to the person who likes playing?

a. Q

b. T

c. R

d. Can't be determined.

e. None of these.

39) How is the person who likes Surfing related to P?

a. Son

b. Grand son

c. Nephew

d. Wife

e. None of these.

40) The person who sits opposite to T likes ____.

a. Playing

b. Surfing

c. Mountaineering

d. Gardening

e. None of these

Directions 41-45: Study the following information carefully to answer the given questions:

Eight friends - A, B, C, D, E, F, G, and H - are sitting around a rectangular table, but not necessarily in the same order, four of them are facing inside and the other four are facing outside and four of them are sitting at the corner and the other four are sitting at the middle. All eight friends work in different companies – Google, Walmart, Intel, Amazon, L&T, Dell, Reliance, and Samsung but not necessarily in the same order. They live in the same building on different floors from 1st to 8th floor but not necessarily in the same order.

The adjacent members do not face the same direction. The person who lives on the 4th floor works at L&T and is sitting third to the right of C. B lives on the 1st floor and is facing towards the center. The person who is working at Reliance lives on the 5th floor and sits opposite A, who lives immediately below him. B and C are the neighbours of H in the square table. The person who lives on the 3rd floor is sitting opposite to the person who works in Intel. E who lives two floors above B is sitting second to the left of B and works at Google. The persons who are working

at Amazon and Dell are sitting opposite to each other. D who lives two floors below A works at Samsung and is a neighbour of A. F who works at Dell does not sit between B and E and he does not live on the top floor. The person working at Amazon lives on the 6th floor. A sits at the corner of the table

41) Which of the combination is correct?

a. A - 7th floor - L&T

b. G - 6th floor - Samsung

c. F - 5th floor - Dell

d. D - 2nd floor - Samsung

e. None of these

42) Four of the following five are alike. Which of the one does not follow the group?

a. B

b. F

c. A

d. E

e. H

43) What is the position of the person living on the 8th floor with respect to the person working at Amazon?

a. 3rd to the left

b. 2nd to the right

c. Opposite

d. Immediate left

e. 2nd to the left

44) Which of the following friend works at Walmart?

a. D

b. B

c. F

d. G

e. C

45) Which of the following sits second to the left of the person who lives on the 2nd floor?

a. The person who works at Google.

b. The person who lives on the 6th floor.

c. The person who works at Intel.

d. The person who lives on the 8th floor.

e. Both c and d

Directions 46-50: Study the following information carefully to answer the given questions:

Eight students - A, B, C, D, E, F, G and H are sitting around a rectangular table, but not necessarily in the same order, four of them are facing inside and the other four are facing outside. They got different ranks in the IIT JEE exam from 1st to 8th and got the admission in different IIT's viz. Kharagpur, Patna, Delhi, Kanpur, Mumbai, Madras, Roorkee and Mandi but not necessarily in the same order. Four of them are sitting in the corner and the other four are sitting in the middle of the table.

D who is facing towards the centre is sitting second to the left of G. The one who got 1st rank got admitted to IIT Kanpur. E who got 3rd rank is sitting third to the right of C. B got admitted to IIT Delhi and sitting adjacent to F who got 7th rank. Both B and F are facing the same direction towards the centre. G is facing outwards and got admitted to IIT Mumbai. The one who got 2nd rank is

sitting second to the right of D who got 8th rank and D got admitted to IIT Patna. C is sitting between G and D and F is sitting fourth to the right of C who faces outside. H faces the same direction as C and he is not the neighbour of G. The one who got 6th rank and got admitted to IIT Kharagpur is sitting to the immediate left of the person who got admitted to IIT Madras. C is not the topper but he got admitted to IIT Roorkee. G got the 4th rank. B sits at the corner of the table

46) Who among the following students got admitted to IIT Mandi?

a. A

b. B

c. F

d. G

e. H

47) Who among the following students sits to the immediate left of A?

a. The person who got admitted to IIT Madras.

b. B

c. G

d. The person who got 5th rank.

e. H

48) Which of the following combinations is correct?

a. B - 2nd - Patna

b. G - 3rd - Mumbai

c. A - 6th - Mandi

d. C - 5th - Roorkee

e. None of these

49) Four of the following are alike in some manner. Which one does not belong to the group?

a. C

b. D

c. E

d. G

e. H

50) What is the rank of H?

a. 6th

b. 5th

c. 1st

d. 8th

e. None of these

Seating Rectangle / Square New Pattern - Answers and Explanations

1. c

2. b

3. b

4. d

5. e

Solutions: 1-5

1. P sits opposite to one, who sits immediate left of R, who has 3 balls.

Also, both sit on same table.

2. The persons facing R is three places away from D.

3. W has twice number of balls than that of S, who has 3 balls than Q.

So, Q, S and W have 1, 4 and 8 balls respectively.

4. Q faces E, who likes yellow color.

5. U sits immediate right of V, who has 7 balls, on the same side.

6. A, who likes white color, faces U, who has 6 balls. C, who likes green color, sits second to the right of A.

7. G sits to the immediate right of F, who likes red color and both sit on the same side.

So, we have four cases,

Case 2(a)

Case 1(a)
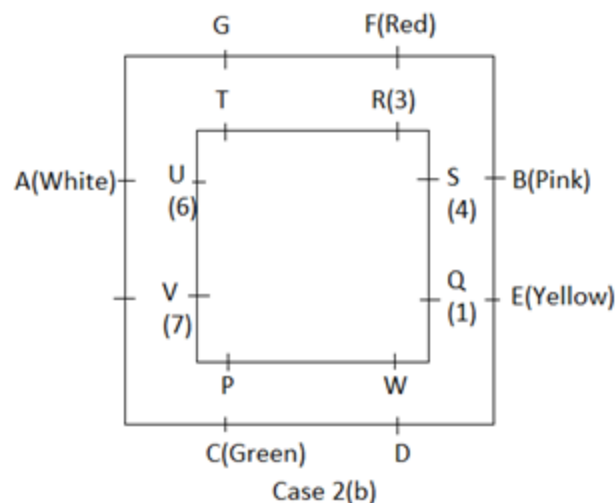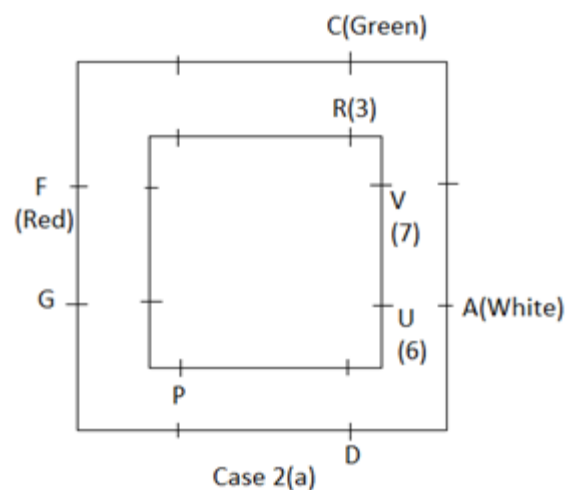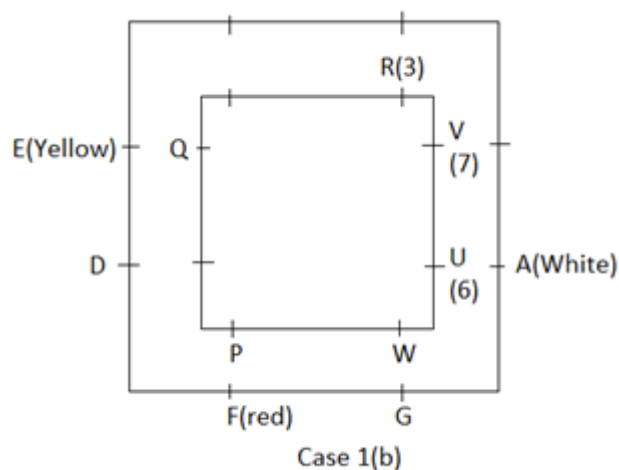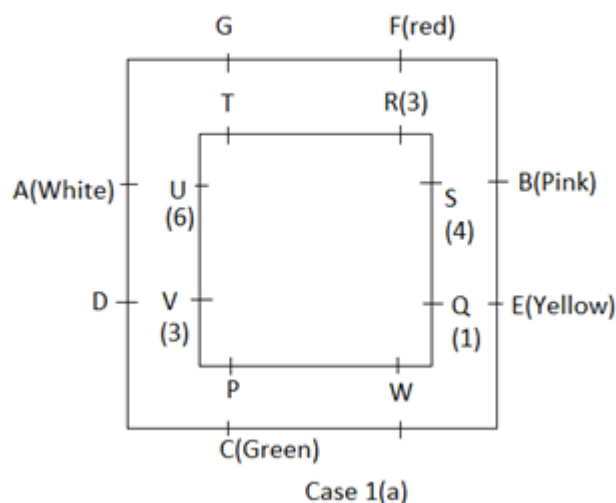
Case 2(b)

Case 1(b)

8. E does not sit adjacent to A or C and Q is not adjacent to R.

So, case 2(a) is rejected.

9. V has 2 more balls than T, who does not face G.

So, case 1(a) and 2(b) are rejected.

10. The one, who has 4 balls, faces B, who likes Pink.

11. S is not adjacent to P, who is not immediate right of T.

12. G does not like Grey or Blue color.

So, we have,
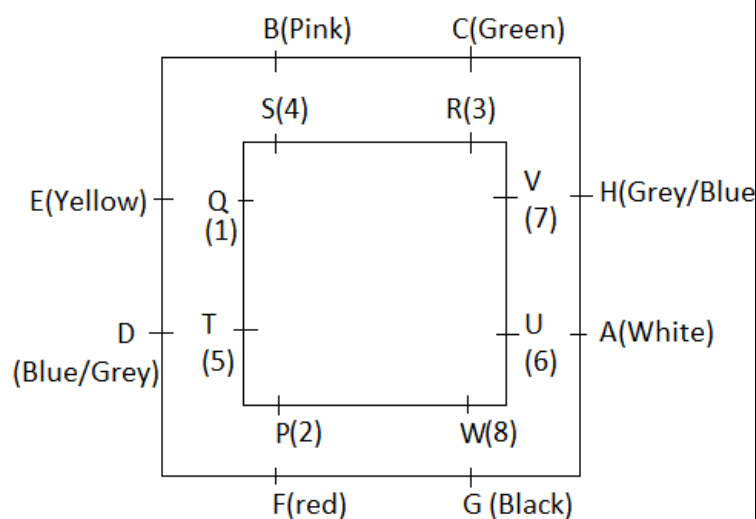
Answers: 6-10

6. D

7. C

8. A

9. E

10. B

Solutions 6-10

1. Two persons are sitting between F and C, who is not sitting at the corners and both of them are facing the opposite directions.

2. E is sitting 2nd to the right of C.

3. D is sitting 2nd to the right of E.

4. One person is sitting between H and G, who is sitting adjacent to B. who is sitting opposite to his only sister.

5. H is not sitting adjacent to D.

Case 1: When F is facing away from the centre and C is sitting 3rd to the right of F. A is not sitting adjacent to B, so this case is not possible.

When G is sitting adjacent to D, then person sitting opposite to A is facing away from the centre, so this case is not possible.
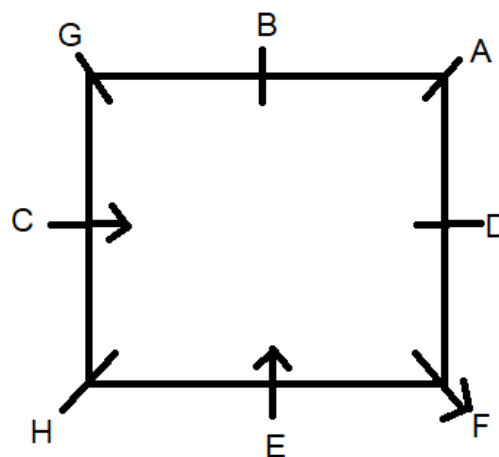
6. Immediate neighbors of D are facing the opposite direction of D.

Case 1(a): When F is facing away from the centre and C is sitting 3rd to the left of F. Person sitting opposite of A is not facing away from the centre, so this case is not possible.
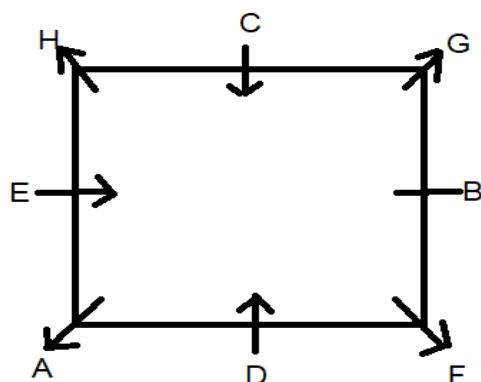
7. B is sitting opposite to his only sister, so E must be the sister of B.

8. E is married to F.

9. C is the only brother of A.

B 3@ - Person sitting 3rd to the right of B is the father of B.

A# - Person sitting opposite to A is the mother of A, i.e. G.

G% - Person sitting opposite to G is not a male member.

Case 2: when F is facing the centre and C is not sitting 3rd to the right of F, so A nor F can be the father of B, so this case is not possible.
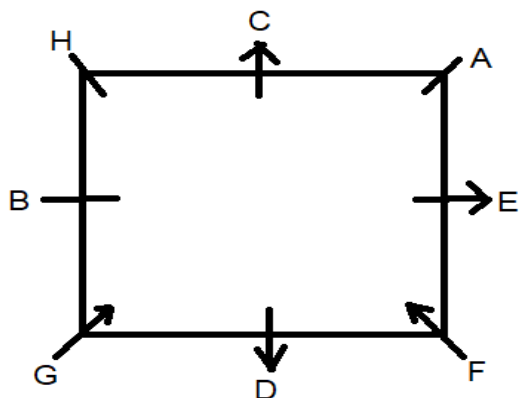
Case 2(a): When F is facing the centre and C is sitting 3rd to the left of F.

The final arrangement is as follows:
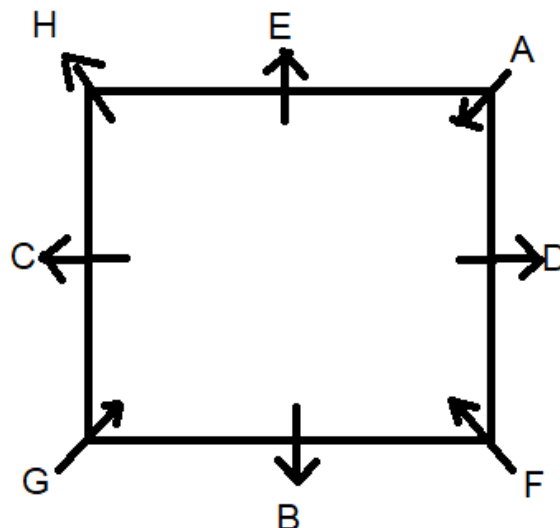
The final family tree diagram is as follows:
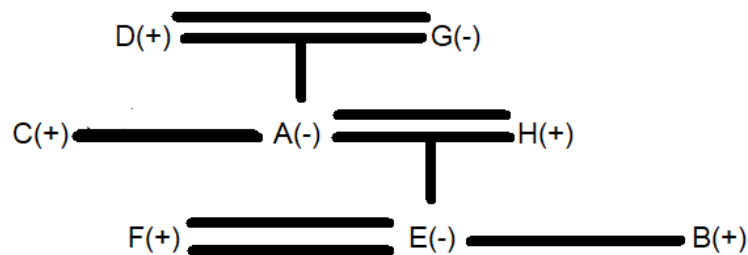
Answers:

11. b

12. a

13. c

14. e

15. d

Solutions: 11-15

1. Both the immediate neighbors of E are sitting at the corners and E is sitting exactly in the middle of one of the sides.

2. Two persons are sitting on the side, which is opposite to E.

3. G is sitting 2nd to the right of E.

4. K is the immediate neighbor of G but doesn't sit at the corner. One of the immediate neighbors of K is sitting at the corner. Both G and K are facing the direction as E.

5. F is sitting 2nd to the right of K. F and I is sitting on the same side. D is sitting adjacent to I. Distance between D and F is 20m. Distance between I and one of the corner of the side on which I is sitting is 10m. Distance between K and G is 2 more than the distance between I and F. H is sitting 2nd to the left of D and both of them are facing the opposite direction.

6. Immediate neighbors of H are facing the opposite direction of H. B is sitting 2nd to the right of H. Distance between the persons sitting on the side opposite to the side on which G is sitting is increasing consecutively. L is sitting adjacent to B and the distance between them is 9m. A is sitting opposite to D.

7. Distance between A and G is equal to the distance between F and I.

Case 1: When E is facing the centre. Immediate neighbors of A are facing the opposite direction of A, so this case is not possible.
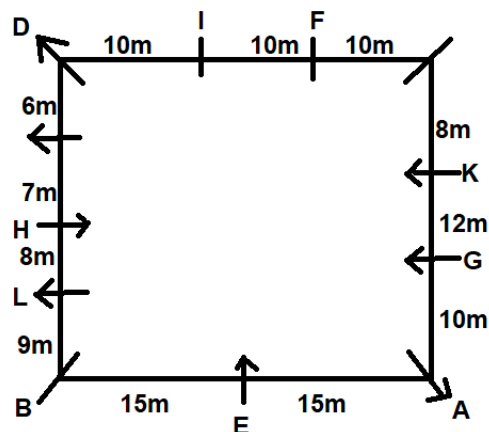
Case 2: When E is facing away from the centre. The final arrangement is as follows:
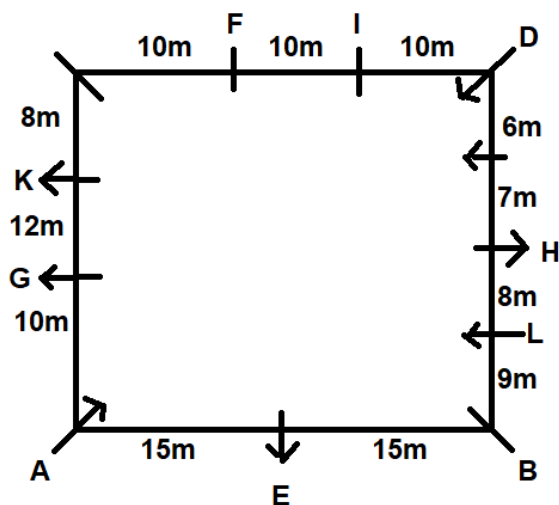
Answers:

16) B

17) E

18) B

19) A

20) B

Solutions 16-20

1) A and F sit together facing in the south direction.

2) F wears red shirt and A does not wear orange coloured shirt.
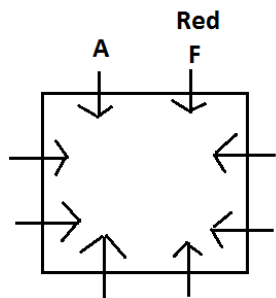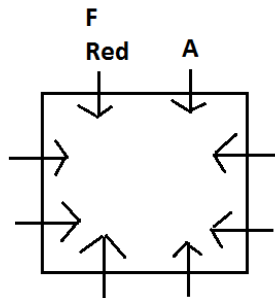
Case-1   Case-2

3) E sits opposite to A and the person next to E wears green coloured shirt.
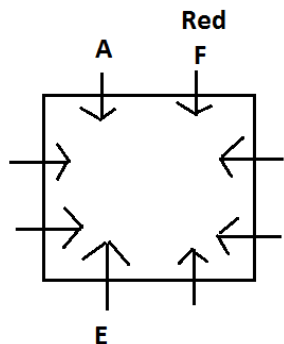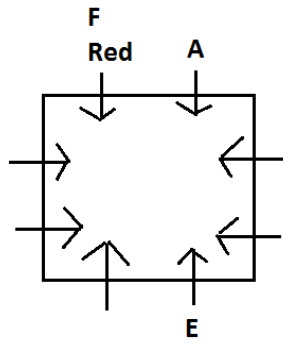
Case-1   Case-2

4) D sits opposite to B, between the persons with gender opposite to that of him.

(D is a male therefore, he will be seated between 2 females)

5) B and C sit next to each other.

(Now as C is a male, the only place left for C is the edge where E is seated)
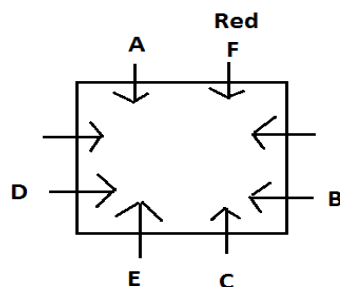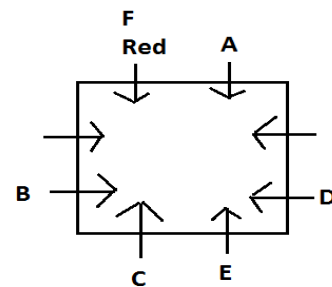
Case-1   Case-2

6) H wears white shirt and is sitting between the persons wearing blue and orange coloured shirts.

(Therefore, C will be wearing Green shirt according to statement 3)
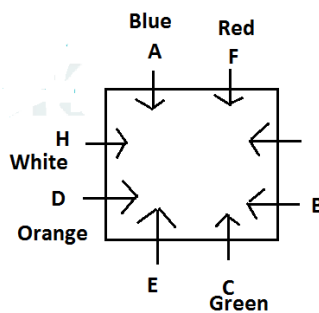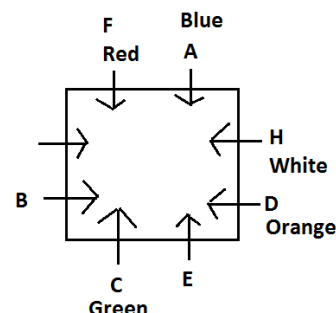
Case-1   Case-2

7) G wears black and sits next to the person wearing yellow coloured shirt.

Now only colour left for E is Pink.
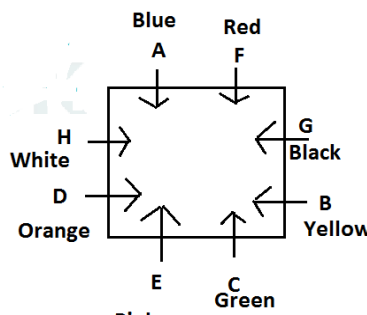
Case-1   Case-2
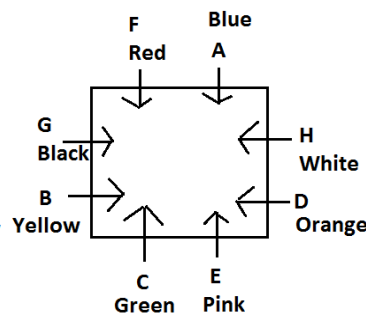
Answers:

21. b

22. a

23. b

24. a

25. d

Solutions 21-25

1. The distance between the persons who are fans of Thor and Aquaman is both a perfect square and a perfect Cube.

2. Q is sitting third to the right of the person who is a fan of Thor.

3. The persons who are fans of Aquaman and Hulk are sitting opposite to each other.

4. The distance between the persons who are fans of Superman and Batman is 27 units which are 11 units more than the distance between the persons who are fans of Batman and Aquaman.

5. W is a fan of Ironman but he is not sitting next to the person who is a fan of Thor or Superman.

6. The sum of distances of Q with his neighbours is 91 units.

7. The distance between V and the person who is a fan of Superman is 64 units. Also, V is not a fan of Captain America.
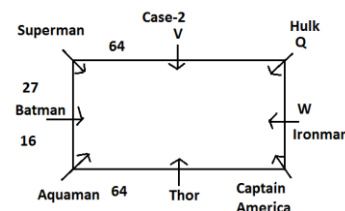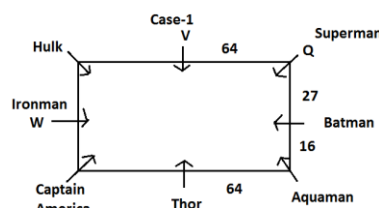
8. Three persons are sitting between S and R but S is not a fan of Hulk.

9. The distances of R with his neighbours are 27 units and 16 units and U is not a fan of Batman.
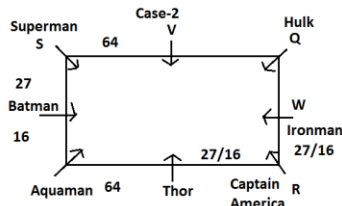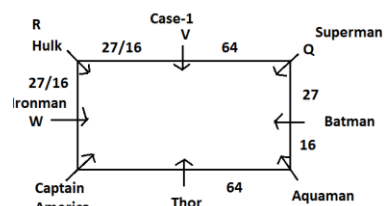
10. The distance between P and the person who is a fan of Captain America is 16 units .

Answers:

26. c
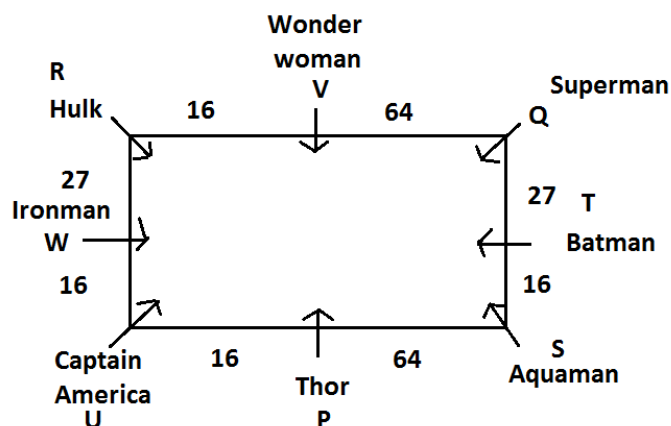
27. e

28. a

29. b

30. c

Solutions 26-30

1. E is sitting opposite to F but not facing each other.

2. C sits second to adjacent of F in clockwise direction.

3. G sits opposite to C and are facing each other.

4. H is sitting between C and F.
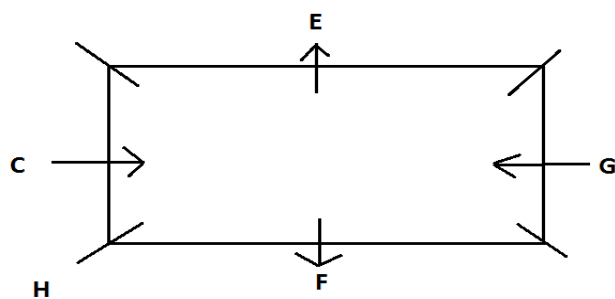
5. B is sitting opposite to H and not facing each other.

6. The person sitting adjacent to G is from UP and plays Volleyball.

7. B and D are not from UPor HP.

So, person sitting between F and G is from UP and plays Volleyball. As D is not from UP so D sits between C and E and A sits between G and F.
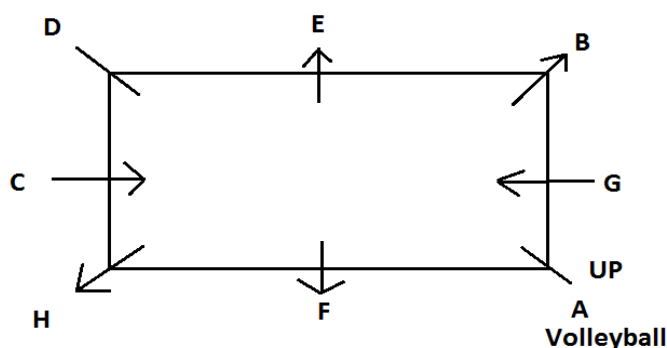
8. The person sitting adjacent to H plays Tennis.

9. F doesn't play Tennis, Badminton or Cricket.

So, C is a tennis player.

10. The Basketball player sits between C and E.
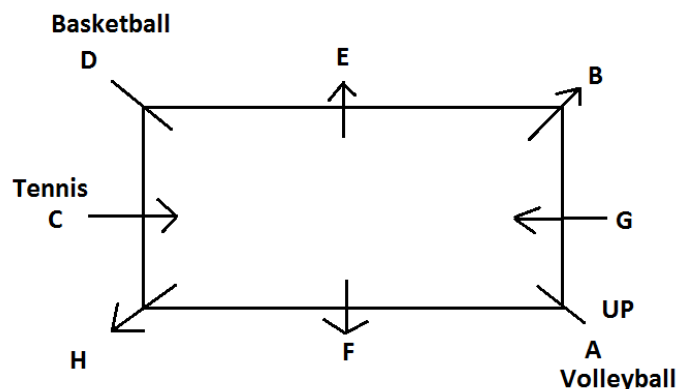
11. The persons sitting adjacent to F faces same direction as A.

As 3 people are facing towards the center of the circle.

12. The person sitting between C and F is from Kerala and plays Hockey.

13. The Basketball player sits adjacent to Football player from Gujarat.

So, E is a football player from Gujarat.
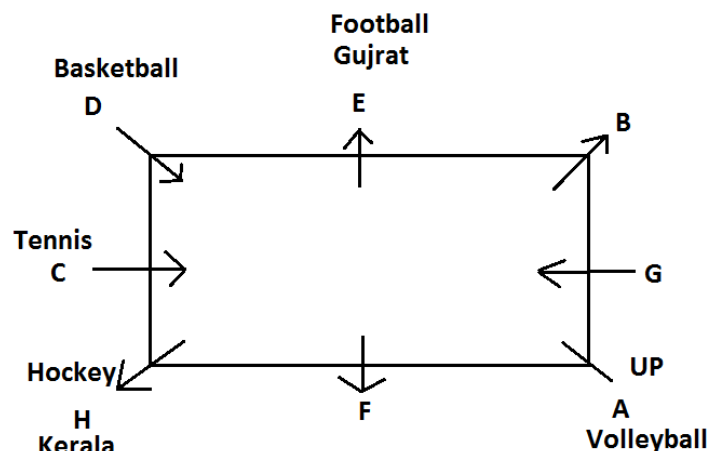
14. H sits opposite to cricket player.

As only games left are Golf and Badminton and F is not a Badminton player so F is a golf player and G is a Badminton player.

15. The Delhi player sits between persons from Punjab and UP.

So, G is from Delhi and B is from Punjab.

16. The tennis player is from MP.

As only two countries are left: HP and Haryana. As, D is not from HP so D is from Haryana and F is from HP.
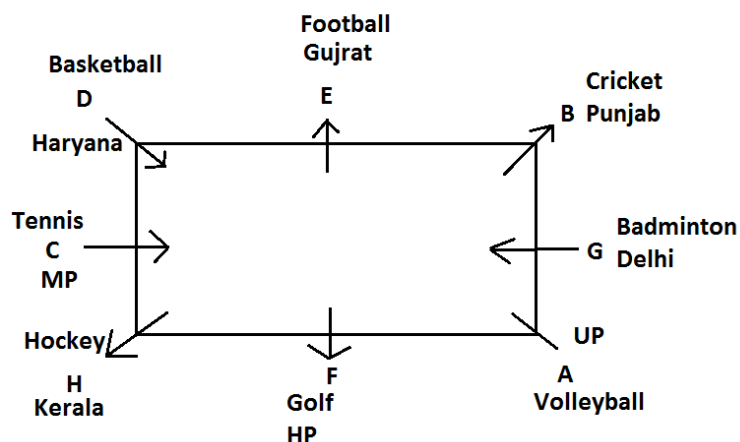
17. The person from Punjab has visited River Yangtze and person from HP has visited River Amazon.

18. E and D has not visited Nile, Yamuna or Brahmaputra.

19. The tennis player has visited River Thames.

So, C has visited River Thames. And D and E has visited either Danube or Ganga.
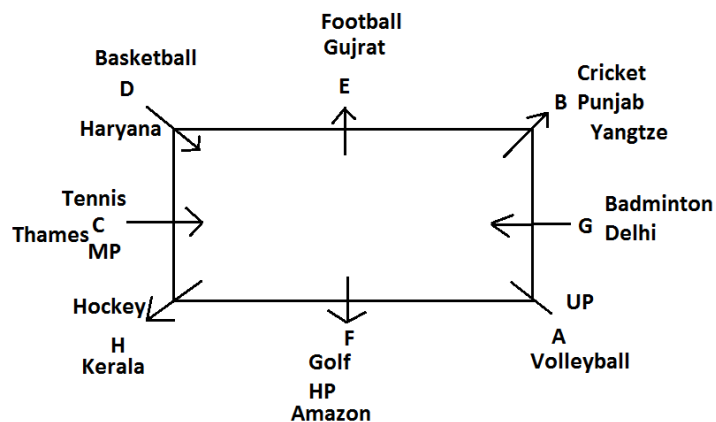
20. B sits between persons who have visited Nile and Ganga.

So, E has visited Ganga, G has visited Nile and D has visited Danube.

21. The hockey player has visited Yamuna.

So, H has visited Yamuna and A has visited Brahmaputra.
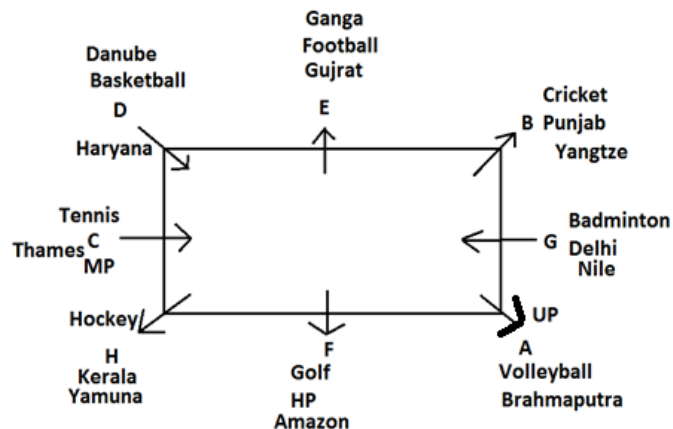
Answers:

31. a

32. e

33. a

34. a

35. d

Solutions 31-35

1) F sits at 135˚ clockwise direction to B.

2) Salary of the one, who sits 2nd to right of Bis divisible by 4000. Here, the probabilities are (16000, 32000, 12000, 40000, 60000)

3) There is an angle of 180˚ between F and E.

4) B sits at 90˚ clockwise direction of A i.e. A is 90˚ anti-clockwise direction of B.

5) E is the youngest in the group. Therefore, E is of 20 years.
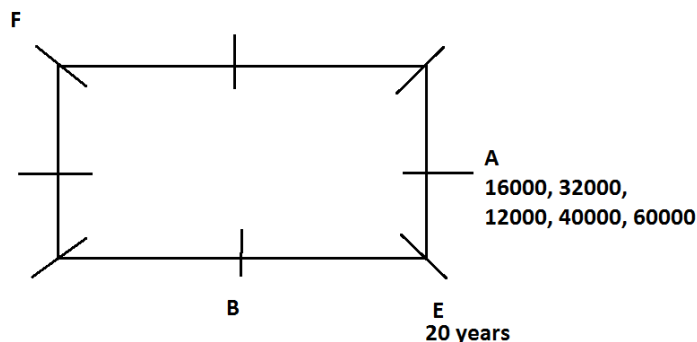
6) There is an angle of 90˚ between A and H.

7) There is an angle of 135° between A and G.

8) Only two pair is sitting diagnolly opposite to each other has age difference of 6 years.

(Such two age pairs are 20, 26 and 30, 44)
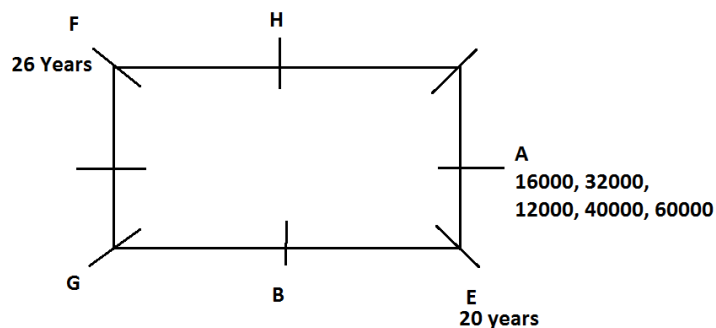
9) G's salary is thousand rupees less than 1/3rd of A's salary i.e. 60000/3 = 20000, 20000 – 1000 = 19000.

10) There is an angle of 180˚ between B and the one whose age is 54 years.

11) D is not an immediate neighbour of the person who is third to the left of A.

Therefore, only place left for D is between A and H and for C is between G and F.

12) C's salary is third highest salary among all the salaries i.e. 40000.
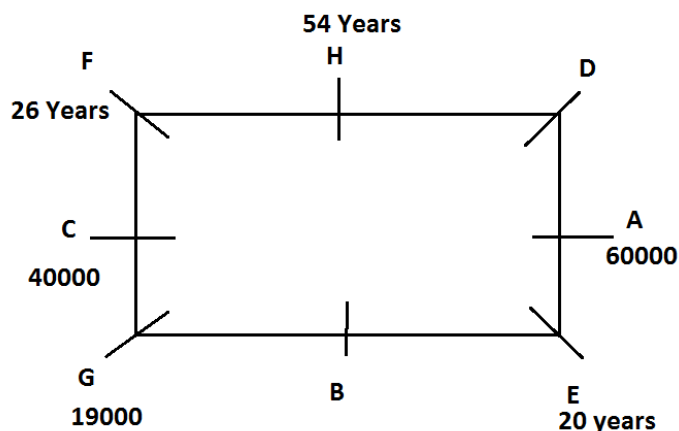
13) E's salary is divisible by 3000 but not 12000.

14) B's salary is double of H's but less than D's salary. (32,000 is double of 16000 but less than 70000, furthermore 12000 which is left is F's salary).

15) The salary of C is 1000 multiple of its age. (Therefore, age of C is 40 years, and using point 8) the age difference of 6 to 34 is 38, therefore age of A is 34 years)

```
           16000
  12000    54 Years
    F         H          D
                          70000
26 Years

40 Years              34 Years
    C                     A
                          60000
40000

    G         B        E   15000
  19000     32000        20 years
```
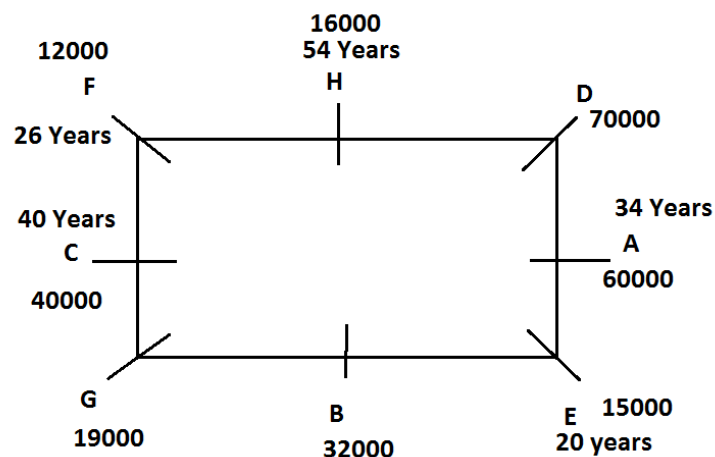
16) The one who have the highest salary is third youngest in the group. (Therefore, D is of 30 years)

17) The average of B and D's age is equal to the age of G. ((56 + 30) /2 = 43 years)


```
           16000
  12000    54 Years    30 Years
    F         H         D
                        70000
26 Years

40 Years               34 Years
    C                     A
                          60000
40000

    G         B        E   15000
  19000     32000        20 years
  43 Years  56 Years
```
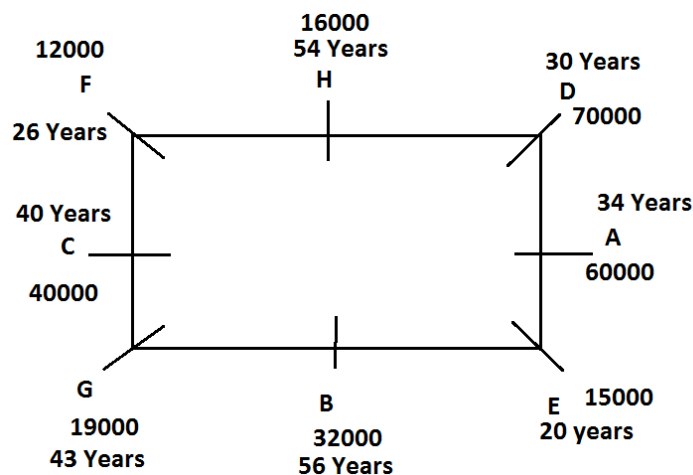
Answers:

36. b

37. c

38. d

39. b

40. c

Solutions 36-40

There is one couple is in 1st generation and one couple is in 2nd generation. The son in law of the person, who likes writing, sits to the immediate left of Q and along one of the edges. Q is married but doesn't have any daughter. Q is in 2nd generation. S is the only brother of V, who is a female. S has to be in 1st or 2nd generation. If S is present in the generation of the one who likes writing, then there is only one person in 3rd generation and two males in 2nd generation. If S is in 1st generation then W cannot be in 2nd or 3rd generation so S is in 2nd generation.

As the son in law of the person, who likes writing, sits to the immediate left of Q and along one of the edges.

Q is married but doesn't have any daughter, so Q must be the daughter of the person, who likes writing. Let the son in law of the person, who likes writing be denoted as 1, so

Seating Arrangement:
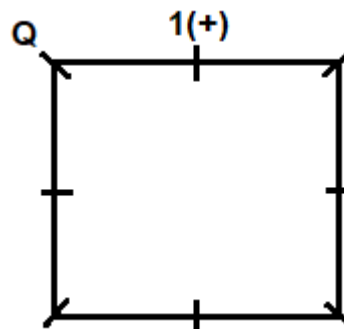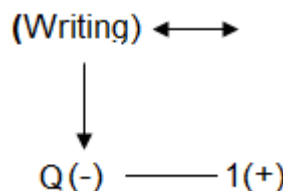
Family tree:

Mother of the person, who likes Gardening, sits 3rd to the right of the one who likes Writing.

Father of the person, who likes Gardening, sits 2nd to the right of V, who is a female.

Case I: The person, who likes Gardening, is in the 1st generation.

Q is the mother of the person, who likes Gardening. V likes Writing.
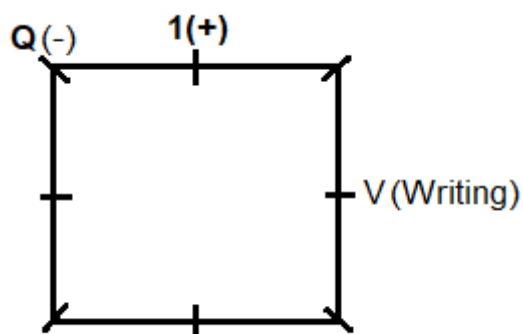
Case II: The person, who likes Gardening, is in the 2nd generation.

Let the mother of the person, who likes Gardening be denoted as 2.
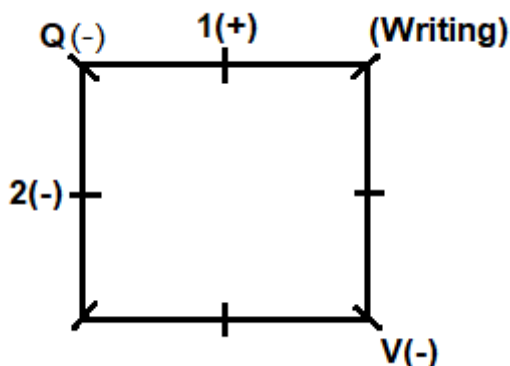
V sits at one of the corners of the table, so case I is rejected.

S is the only brother of V and sits immediate left of V.

One person sits between S and W.

W is one of the two sons of the person who likes Reading, so either Q or her husband likes Reading.

Seating Arrangement:
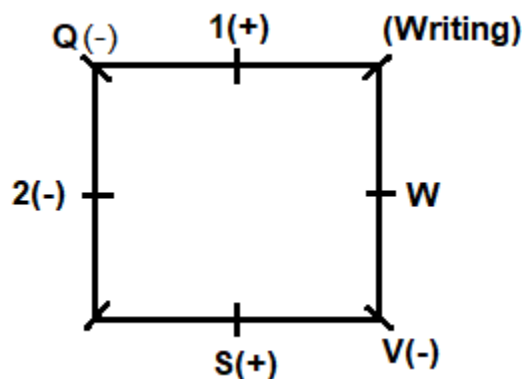
Family Tree:
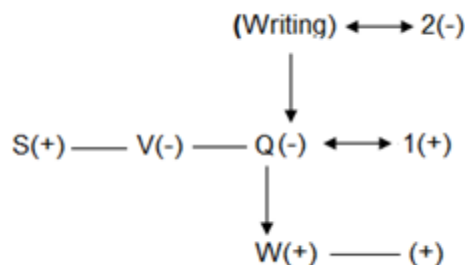
P sits immediate left of the person who likes Reading.

U sits opposite to P, so P likes Writing and the husband of Q likes Reading.

T likes Swimming, so T is the mother of Q, V and S. Also, R is the husband of Q and likes Reading.

Seating Arrangement:
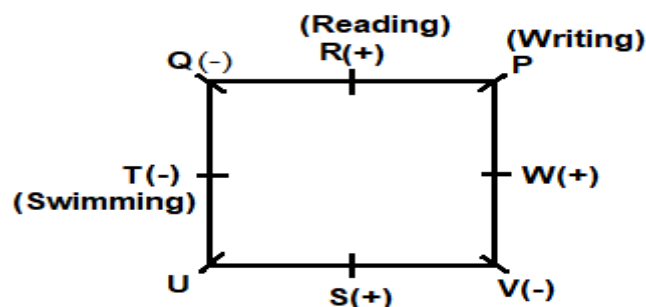
Family Tree:
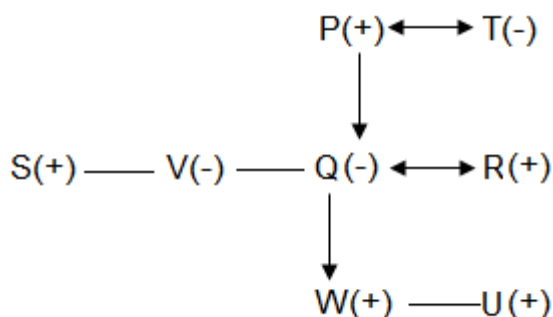
Person who likes Surfing sits immediate right of T, so U likes Surfing.

Two persons sit between the persons who like Surfing and Mountaineering, so W likes Mountaineering.

Neither S nor V likes Dancing, so Q likes Dancing and thus, either S or V likes Gardening or Playing.

The final seating arrangement and family tree is given below:
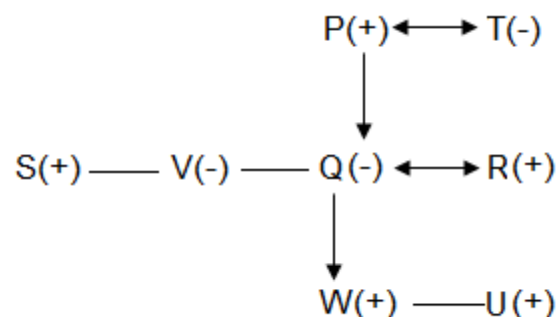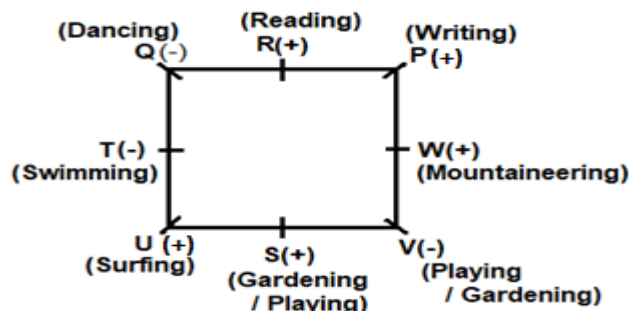
Answers:

41. d

42. c

43. a

44. b

45. e

Solutions 41-45

1) B lives on 1ˢᵗ floor and is facing towards the center.

2) The adjacent members do not face the same direction.

3) E who lives two floors above B is sitting second to the left of B and works at Google.
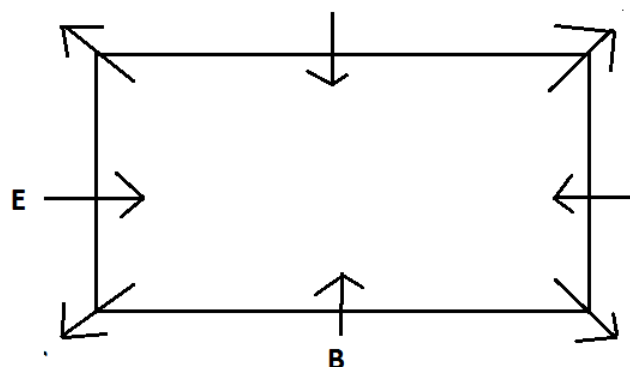
Floors	Friends	Companies
8		
7		
6		
5		
4		
3	E	Google
2		
1	B	

4) B and C are the neighbors of H.

(This implies that H will be at immediately right of B and C at the immediate left of H)

5) The person who lives on the 4th floor works at L&T and is sitting third to the right of C.

6) The person who is working at Reliance lives on 5th floor and sits opposite to A, who lives immediately below him. (It implies A works at L&T and lives on 4th floor and H who works in reliance sits opposite to A and lives on 5th floor).
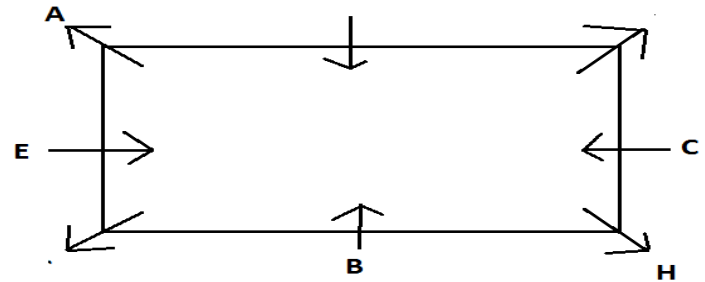
Floors	Friends	Companies
8		
7		
6		
5	H	Reliance
4	A	L&T
3	E	Google
2		
1	B	

7) The person who lives in 3rd floor is sitting opposite to the person working in Intel.

(That implies, C works at Intel).

8) D who lives two floors below A works at Samsung and is a neighbour of A.

(This implies D is sitting to the immediate right of A and works at Samsung and lives on 2nd floor)

9) The persons who are working at Amazon and Dell are sitting opposite to each other.

(This implies that B works at Walmart)
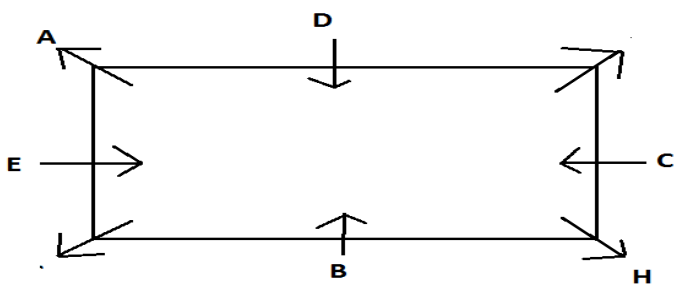
Floors	Friends	Companies
8		
7		
6		
5	H	Reliance
4	A	L&T
3	E	Google
2	D	Samsung
1	B	Walmart

10) F who works at Dell does not sit between B and E and he does not live at top floor.

11) The person working at Amazon lives in 6th floor.

(This implies that F works at Dell and is sitting between C and D and G is sitting between B and E. Hence, G works at Amazon and lives on 6th floor. Since F does not live on

top floor, F must be living on 7th floor and remaining C lives on 8th floor.)
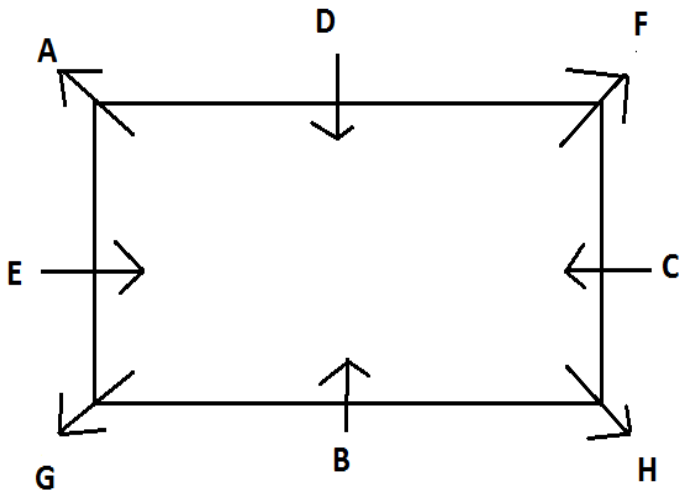
Floors	Friends	Companies
8	C	Intel
7	F	Dell
6	G	Amazon
5	H	Reliance
4	A	L&T
3	E	Google
2	D	Samsung
1	B	Walmart

Answers:

46. c

47. a

48. d

49. b

50. c

Solutions 46-50

1) D who is facing towards the centre is sitting second to the left of G.

2) G is facing outwards and got admitted to IIT Mumbai.

3) The one who got 2nd rank is sitting second to the right of D who got 8th rank and D got admitted to IIT Patna.
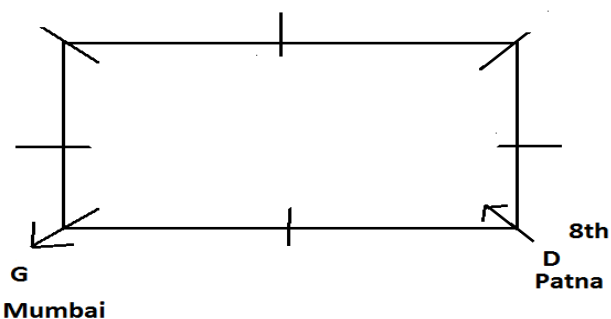
4) C is sitting between G and D and F is sitting fourth to the right of C.

5) E who got 3rd rank is sitting third to the right of C.
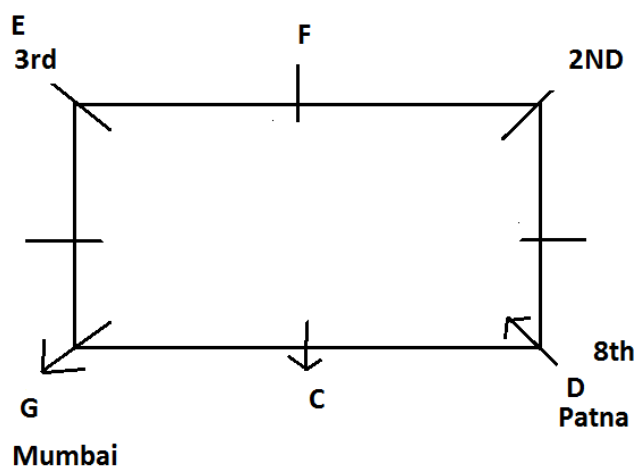
6) B got admitted to IIT Delhi and sitting adjacent to F who got 7th rank.

7) Both B and F are facing the same direction i.e. towards the centre.
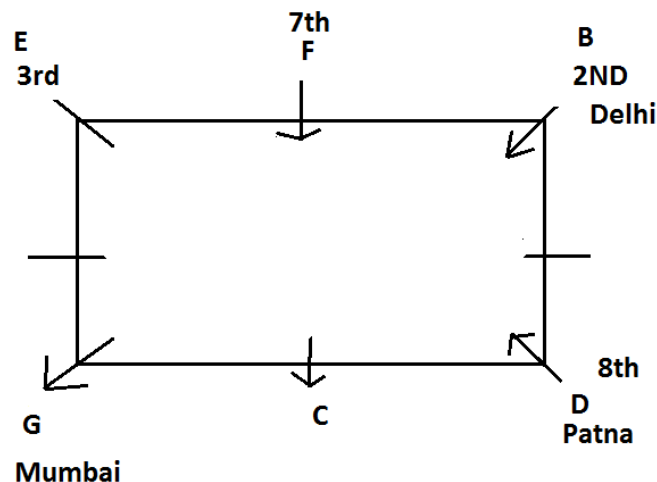
8) H faces the same direction as C and he is not the neighbour of G.

9) The one who got 6th rank and got admitted to IIT Kharagpur is sitting to the immediate left of the person who got admitted to IIT Madras.
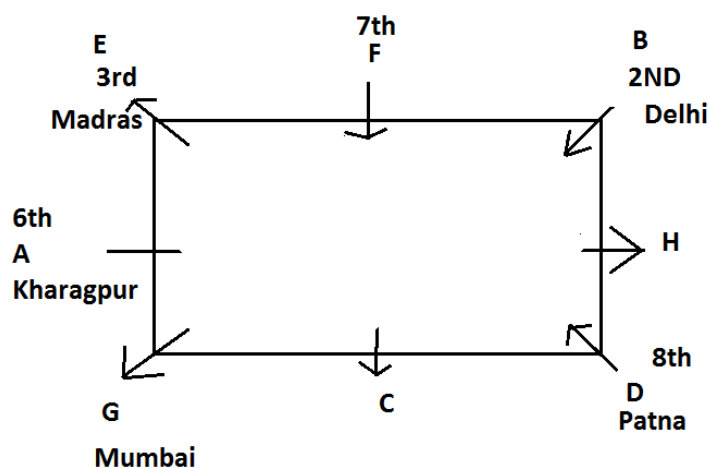
10) The one who got 1st rank got admitted to IIT Kanpur.

11) C is not the topper and he got admitted to IIT Roorkee.

12) G got the 4th rank.
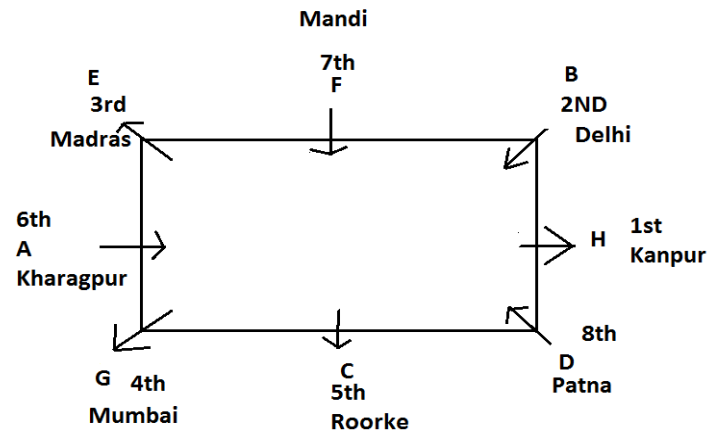
Mandi
7th
F

E
3rd
Madras

B
2ND
Delhi

6th
A
Kharagpur

H
1st
Kanpur

8th

G   4th
Mumbai

C
5th
Roorke

D
Patna

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Puzzle Box

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

Eight boxes P, Q, R, S, T, U, V and W are kept one above another such that bottommost box is numbered as 1 while the topmost box is numbered as 8. Each of them contains different number of bottles among 10, 25, 28, 36, 47, 50, 81 and 88.

Box P is three boxes above the box, which contains 28 bottles. Box Q is two boxes above the box P. There is one box between the box containing 28 bottles and box V. The average of number of bottles in box R and box Q is equal to number of bottles of box P. The box containing 47 bottles is just above the one containing 25 bottles. Box R is an odd number box. There is one box between the box containing 28 bottles and box containing 10 bottles. The bottommost box contains 88 bottles. Box S is just above box W, which contains 50 bottles. Box S is not adjacent to box P. Box U does not contain 10 or 81 bottles.

1) Which of the following box contains maximum number of bottles?

a. Box T

b. Box S

c. Box U

d. Box R

e. None of these

2) How many boxes are above the box T?

a. Three

b. Four

c. Five

d. One

e. None of these

3) Which box is just above box R?

a. Box W

b. Box U

c. Box P

d. Box Q

e. None of these

4) How many bottles does box V contain?

a. 10

b. 36

c. 47

d. 25

e. None of these

5) How many boxes are between box T and box W?

a. Three

b. One

c. Two

d. Four

e. Five

Direction(6-10): Read the following information carefully and answers the question given below.

Nine boxes are stacked one above another, such that the bottommost box is 1 and the box above it is 2 and so on. Some of them contain different fruits and only some of the boxes are named as alphabetical letters.

Two boxes are placed between M and L, which contains Kiwi. K is placed immediately above of L. One box is placed between K and the box, which contains Apple. Strawberries are placed just below Apple. Number of boxes between the boxes, which contain Kiwi and Strawberries, is equal to the number of boxes between L and H. H, which is placed 2nd to the below of D, is placed above L. Box, which is placed just above H contains Mango. The number of boxes between the boxes, which contain Mango and Apple, is a prime number. Number of boxes between H and M is 4. Orange is placed 2nd to the above of Mango. Number of boxes between the boxes, which contain Orange and Kiwi is equal to the number of boxes below K. Number of boxes above D is equal to the number of boxes below the box contains strawberry. R is placed above D. Box M is placed at the bottom. Box which contains Mango is placed above the box which contains Apple.

6) How many boxes are placed below the box which contains apple?

a. 2

b. 1

c. 3

d. Cannot be determined

e. None of these

7) Find the odd one out.

a. R

b. K

c. D

d. M

e. H

8. How many boxes are placed below the box, which contains Mango?

a. 7

b. 6

c. 4

d. 8

e. None of these

9. Which of the following box contains Strawberries?

a. M

b. K

c. R

d. D

e. None of these

10. Four of the five are alike in a certain way and hence form a group. Find the one which doesn't belong to that group.

a. R

b. M

c. Apple

d. K

e. H

Direction (11-15): Read the following information carefully and answer the question given below.

There are eight boxes A, B, C, D, E, F, G and H kept one above the other like a stack. Six of these boxes contain different items Caps, Shirts, Trousers, T-shirts, Watches and Shoes while others are vacant. The bottommost box is numbered 1 and the topmost box is numbered 8.

There are at least two boxes between the vacant boxes. There are at least two boxes below G. There are at least two boxes above A, which doesn't contain Watches. None

of the boxes below G is vacant. The topmost box contains Trousers. E is box 7. Box, which contains shirts, is three boxes above G. Box, which contains shoes, are two boxes above F, which contains T-shirts. B is immediately above the box, which contains shoes. H is immediately above C.

11) Which among the following statement(s) is/are true?

a. There are three boxes above the box, which contains shoes.

b. H is two boxes above the box, which contains caps.

c. None is true.

d. Box 1 contains Watches.

e. There are two boxes between E and C.

12) Which among the following two boxes are vacant?

a. D, B

b. E, D

c. G, E

d. E, B

e. None of these.

13) How many boxes are above the box which contains Caps?

a. Five

b. Four

c. Six

d. Three

e. None of these.

14) Which among the following boxes are between the vacant boxes?

I. C

II. H

III. D

IV. E

a. Both I and III

b. Both II and IV

c. Both III and IV

d. Both I and II

e. None of these.

15) Which of the following box contains shoes?

a. G

b. B

c. E

d. H

e. None of these

Directions: (16-20) Study the below details and answer the following questions.

There are 10 boxes placed in a stack, not necessarily in the same order. They are of different Types of Material viz. Wooden, Metal, Plastic, Glass, Rubber, Cotton, Steel, Aluminium, Paper and Fibre

More than four boxes are below box G. Only two boxes are kept between box A and box C. H is not a Glass Type box. Steel Type box is kept immediately below C. Box A is a Plastic Type and is kept immediate above or below Glass Type box. There is only one box kept between Steel Type box and Paper Type box. Only three boxes are kept between Rubber Type and Paper Type box. Only two boxes are kept between box B and Rubber Type box. Box E is kept immediately below box B. Only one box kept between box E and box F. Box G is kept immediately below Glass Type box. Paper Type box is below box D and H. Metal Type box is placed immediate below Wooden Type box but not placed at the bottom most position. Aluminium Type box is above Fibre Type box but below Cotton Type box. Only two boxes are kept between box J and Glass Type box. One of the boxes is I

16) Which of the following box is of Fibre Type?

a. Box D

b. Box B

c. Box E

d. Box C

e. None of these

17) Which of the following box is placed at the top?

a. Box E

b. Box D

c. Box F

d. Box J

e. None of these

18) How many boxes are between the box which is kept immediately below A and immediately above I?

a. One

b. Four

c. Three

d. Two

e. None of these

19) Box H is of which Types box?

a. Aluminium

b. Rubber

c. Cotton

d. Metal

e. None of these

20) How many boxes are kept below Aluminium Type box?

a. None

b. One

c. Two

d. Three

e. None of these

Direction (21-25) Study the below details and answer the following questions.

Eight boxes are placed one above another. Each of them contains different items viz. Jersey, Phones, Bottles, Diarys, Ring, Headphones, Laptop, and Toy. But not necessarily in the same order.

Only two boxes are placed between box P and U. The lightest box is placed at the top. Only two boxes are lighter than box D. Not more than two boxes are placed between the lightest box and box P. Box U is not the lightest box. Box R contains Phones. The heaviest box contains Diary. Box Q is heavier than box D but lighter than box T. The box which contains Phone is heavier than the box which contains Jersey. Box S is placed below box Q. Two boxes are placed between box A and the box which contain Jersey. The box which contains Jersey is placed immediately above the box which contains Diary. The box which contain Jersey is heavier than box D. Box Q neither contain Jersey nor Ring. Box U is lighter than the box which contains Ring. The box which contains Toy which is just heavier than box S which is heavier than box U. U neither contains neither Headphones nor Bottles. Three boxes are placed between the box which contain Toy and the box which contain Laptop. Third heaviest box is placed immediately below the box which contains Toy. Only one box is placed between heaviest and second heaviest box. The box contain Headphones is lighter than the box which contain Bottles. Box P does not contain Bottles and headphones.

21) How many boxes are heavier than the box which contains Ring?

a. One

b. Two

c. More than Three

d. No one

e. Three

22) Which of the following box is placed immediately below the box which contains Laptop?

a. Q

b. S

c. T

d. R

e. None of these

23) How many boxes are placed between box A and S?

a. One

b. Two

c. More than Three

d. No one

e. Three

24) Box D contains which of the following item?

a. Laptop

b. Diary

c. Bottles

d. Jersey

e. Ring

25) Which of the following box contains Laptop?

a. D

b. S

c. T

d. U

e. R

Directions (26-30): Refer to the data below and answer the questions that follow.

There are eight boxes named A, B, C, D, E, F, G and H. They are placed one above the other. Each box contains different Fruits i.e., Mango, Banana, Carrot, Coconut, Lemon, Apple, Sugarcane and Strawberry but not necessarily in the same order.

Only one box is between Box E and the box which contains Mango. Three boxes are there between Box E and Box F. There are two boxes between box G and the box which contains Strawberry. Box G is placed above the box which contains Strawberry. Box G is placed above Box E. Neither Box F nor Box E is placed at the topmost or lowermost position. The number of boxes above H is the same as the number of boxes below the box which

contains Strawberry. Two boxes are placed between Box H and the box which contain Carrot. Only one box is between Box B and the box which contains Sugarcane. Box B does not contain Strawberry. Two boxes are there between A and the box which contains Banana. Neither Box F nor Box G contains Banana. Box A is not the lowermost box. Box A is not placed just below Box E. Box C is placed just above the box which contains Apple. Neither Box F nor Box E contains Coconut. Two boxes are between C and the box which contains Coconut. Box D does not contain Sugarcane. Box F is placed below Box E.

26) Which of the following box contains Lemon?

a. G

b. C

c. E

d. B

e. None of these

27) If Box C is related to Banana, Box E is related to Strawberry, in the same way Box A is related to which of the following Fruit?

a. Carrot

b. Lemon

c. Sugarcane

d. Coconut

e. None of these

28) How many Boxes are there between Box G and the box which contains Sugarcane?

a. None

b. One

c. Two

d. Three

e. None of these

29) Which of the following box contains Coconut?

a. E

b. F

c. H

d. C

e. None of these

30) Which of the following box contains lemon?

a. B

b. F

c. H

d. C

e. None of these345

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

Seven boxes A, B, C, D, E, F and G are kept in the warehouse of a printing press. The boxes contain books of different subjects which are English, Mathematics, Biology, Hindi, Polity, Chemistry and Accounting but not necessarily in the same order. Each box contains books of only one subject. As the thickness of the books differs from one subject to the other, the number of books in each box is different.

Box C does not contain books of either Polity or Mathematics. Box E contains either English or Biology

books. The number of Biology books is 22 less than the number of books in box C. The box containing Polity books has 23 books in total. Box F has 18 more books than box D and 8 more books than box B. The box that contains Hindi books has the highest number of books and the box with English books has the second highest number of books. Box E has 7 more books than box G but 22 more books than box B. Mathematics books are odd in number. Box B contains either Chemistry or Polity books and the number of books is 8/11 of the number of books in box G.

31) Which subject has the least number of books?

a. Mathematics

b. Polity

c. Accounting

d. Biology

e. Chemistry

32) Box F contains books of which subject?

a. Hindi

b. English

c. Biology

d. Mathematics

e. Chemistry

33) How many books are there in box G?

a. 20

b. 50

c. 40

d. 48

e. None of the above

34) Which box contains Hindi books?

a. Box G

b. Box C

c. Box B

d. Box F

e. Can't be determined

35) How many books of Chemistry are there?

a. 20

b. 50

c. 40

d. 48

e. None of the above

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

There are eight people Naresh, Vishal, Kawal, Manoj, Kunal, Chandan, Vinay and Vikash. All of them having one box numbered 1 to numbered 8.The lowermost box is numbered 1, just above them is numbered 2 and so on. The weight of each box is 22 kg, 24 kg, 26 kg, 27 kg, 33 kg, 38 kg, 42 kg and 45 kg, but not necessary in same order. Each box contains different fruits - Tomato, Onion, Potato, Capsicum, Mushroom, Cucumber, Black Olive and Garlic but not necessary in same order.

Vikash's box contains Garlic and his box is heavier than Kunal's box, which contains Black Olive. Only one box is there between Potato and the Tomato box. Only one box is between the one which contains Black Olive and which contains Garlic, both of them is numbered odd. Vishal whose box weighs 24 kg, contains Tomato and the box is numbered even but greater than 4. The box that contains

Cucumber is 42 kg and is placed just below the box that contains Black Olive. Box that contains Potato is placed above the Tomato box. Kawal has Capsicum. Kunal's box is 5 kg heavier than Naresh, who has Potato. Vinay's box contains Mushroom and the box is numbered 5 and the weight of the box is multiple of 13. The one whose box contains Capsicum is 22 kg and is immediately above the box which contains Black Olive. Manoj has Onion.

36) Which of the following Person's box contains Potato?

a. Manoj

b. Vishal

c. Kunal

d. Naresh

e. Kawal

37) Whose box among the following is the heaviest in the group?

a. Manoj

b. The one which contains Black Olive

c. The one which contains Garlic

d. Naresh

e. Kawal

38) Whose box among the following is on the topmost?

a. Vishal

b. Naresh

c. The one whose box contains Tomato

d. The one whose box contains Cucumber

e. Both (1) and (3)

39) Which of the following is true regarding Kunal?

a. He likes Garlic

b. His box is 33kg

c. His box is immediate above the Garlic box.

d. Only one box is between his box and the box which contains Mushroom.

e. None is true

40) What is the weight of the box which contains Cucumber?

a. 24 kg

b. 27 kg

c. 33 kg

d. 38 kg

e. 42 kg

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

There are nine players A, B, C, D, E, F, G, H and I in a school. They play different games: PUBG, FIFA, Call of Duty, Modern Combat, Asphalt, Teen Patti, Minecraft, Pokemon and Real Racing but not necessarily in same order. There are 9 Boxes one above another that belongs to these players.

There are five Boxes between the Box of the players who play PUBG and Modern Combat and any of these two Boxes is neither at the top nor at the bottom. A plays Asphalt and only 2 Boxes are there above his Box. The Box of the person who plays Minecraft is just above the Box of E. D's Box is exactly in between the Box of Pokemon player and Teen Patti player. H plays Pokemon and his Box is just below A's Box. G, the FIFA player has

the Box two places below the Box of the player who plays Minecraft. B plays Real Racing. The Box of Real Racing and PUBG players are adjacent. C's Box is between the Box of D and I. D does not play PUBG or Minecraft or Modern Combat.

41) What is the position of Box of Minecraft player with respect to the H's Box.

a. Two places above

b. Three places below

c. Four places below

d. Immediately above

e. None of these

42) Which of the following is not true?

a. The Box of FIFA player is at the bottom.

b. D plays Call of Duty.

C. There is no Box between the Box of Modern Combat and Asphalt players.

d. I's Box is just above the Box of Modern Combat player.

e. All are true

43) How many Box are there between Box of F the one who plays Call of Duty?

a. 1

b. 2

c. 3

d. 4

e. None

44) Who plays PUBG among the players?

a. D

b. E

c. C

d. F

e. Can't be determined.

45) Find the odd one?

a. B – F

b. H – D

c. C – I

d. A – B

e. E – G

Directions 46-50: Study the below details and answer the following questions.

Eight boxes A, B, C, D, E, F, G and H are placed on a shelf. Each of them contains different fruits viz. Mango, Banana, Guava, Grape, Kiwi, Litchi, Strawberry and Raspberry, but not necessarily in the same order. The Lowermost Box is numbered 1 and the topmost Box is numbered 8.

There is only one Box between the one who contains Guava and the one who contains Raspberry. There are two Boxes between the one who contains Banana and Box C. Box F number is even and contains Strawberry. Neither Box A nor Box B contains Banana or Kiwi. The box which contains Grapes placed on bottom. There are three Boxes between Box B and Box E. Box F placed above Box C, who does not placed on bottom but contains Mango. Only one Box placed between the one who contains Kiwi and the one who contains Banana. The box which contains Guava placed on the topmost box. Box H

does not contain Guava. Box G is between box A and box F. Box B placed above Box E and Box A.

46) B contains which of the following fruit?

a. Banana

b. Strawberry

c. Kiwi

d. Litchi

e. None of the above

47) Which of the following combinations is true?

a. 2nd Box – Kiwi – C

b. 4th Box – Mango – F

c. 3rd Box – Grape – H

d. None is true.

e. 6th Box – Raspberry – A

48) Who among the following placed on the topmost stack?

a. D

b. F

c. H

d. A

e. None of the above.

49) How many Boxes are there between F and C?

a. None

b. One

c. Two

d. Three

e. None of these

50) Who among the following placed 3rd from bottom?

a. C

b. D

c. The one who contains Kiwi.

d. None.

e. The one who contains Mango.

Puzzle Box – Answer and Explanation

Solution (1-5)

1. Answer- C
2. Answer- B
3. Answer- D
4. Answer- A
5. Answer- B

1. Box P is three boxes above the box, which contains 28 bottles.

2. Box Q is two boxes above the box P.

3. There is one box between the box containing 28 bottles and box V. So, we have three cases,

Case 1:

Box number	Box	Number of bottles
8	Q	
7		
6	P	
5	V	
4		
3		28
2		

1		88

Case 2:

Box number	Box	Number of bottles
8		
7	Q	
6		
5	P	
4	V	
3		
2		28
1		88

Case 3:

Box number	Box	Number of bottles
8	Q	
7		
6	P	
5		

4		
3		28
2		
1	V	88

4. The average of number of bottles in box R and box Q is equal to number of bottles of box P.

So, Q and R must have 25 and 47 bottles but not necessarily in same order.

Hence, Box P contains 36 bottles.

5. The box containing 47 bottles is just above the one containing 25 bottles.

6. Box R is an odd number box.

So, case 2 is rejected.

Case 1:

Box number	Box	Number of bottles
8	Q	47
7	R	25
6	P	36
5	V	
4		
3		28

2		
1		88

Case 3:

Box number	Box	Number of bottles
8	Q	47
7	R	25
6	P	36
5		
4		
3		28
2		
1	V	88

7. There is one box between the box containing 28 bottles and box containing 10 bottles.

8. The bottommost box contains 88 bottles.

9. Box S is just above box W, which contains 50 bottles.

10. Box S is not adjacent to box P.

Case 1

Box number	Box	Number of bottles
8	Q	47

Box number	Box	Number of bottles
7	R	25
6	P	36
5	V	10
4		
3	S	28
2	W	50
1		88

Case 3

Box number	Box	Number of bottles
8	Q	47
7	R	25
6	P	36
5		10
4		81
3	S	28
2	W	50
1	V	88

11. Box U does not contain 10 or 81 bottles.

So, case 3 is rejected.

The final arrangement is shown below,

Box number	Box	Number of bottles
8	Q	47
7	R	25
6	P	36
5	V	10
4	T	81
3	S	28
2	W	50
1	U	88

Solution 6-10:

6. Answer- A
7. Answer- A
8. Answer-B
9. Answer- E
10. Answer- E

1. Two boxes are placed between M and L, which contains Kiwi.

2. K is placed immediately above of L.

3. One box is placed between K and the box, which contains Apple.

4. Strawberries are placed just below Apple.

5. Box M is placed at the bottom.

Case-1

Positions	Boxes
9	
8	
7	
6	
5	K
4	L(Kiwi)
3	(Apple)
2	(Strawberries)
1	M

Case-2

Positions	Boxes
9	
8	
7	(Apple)
6	(Strawberries)
5	K
4	L(Kiwi)
3	
2	

1	M

6. Number of boxes between the boxes, which contain Kiwi and Strawberries, is equal to the number of boxes between L and H.

7. H, which is placed 2nd to the below of D, is placed above L.

8. Box, which is placed just above H contains Mango.

9. Box which contains Mango is placed above the box which contains Apple.

Hence, Case-2 is eliminated

Positions	Boxes
9	
8	D
7	Mango
6	H
5	K
4	L(Kiwi)
3	(Apple)
2	(Strawberries)
1	M

10. Orange is placed 2nd to the above of Mango.

11. Number of boxes between the boxes, which contain Orange and Kiwi is equal to the number of boxes below K

12. Number of boxes above D is equal to the number of boxes below Strawberries.

13. R is placed above D.

The final arrangement is as follows:

Positions	Boxes
9	R (Orange)
8	D
7	(Mango)
6	H
5	K
4	L(Kiwi)
3	(Apple)
2	(Strawberries)
1	M

Solution 11-15

11. Answer- C

12. Answer- D

13. Answer- C

14. Answer- D

15. Answer- A

1. The topmost box contains Trousers.

2. E is box 7.

3. Box, which contains shirts, is three boxes above G.

4. There are at least two boxes below G, so

	Case I	Case II
8	(Trousers)	(Trousers)
7	E (Shirts)	E
6		(Shirts)
5		
4	G	
3		G
2		
1		

5. None of the boxes below G is vacant.

6. There are at least two boxes between the vacant boxes, this is not possible in case I, so case I is rejected.

	Case II(a)	Case II(b)
8	(Trousers)	(Trousers)
7	E(vacant)	E(vacant)
6	(Shirts)	(Shirts)
5		
4		(vacant)

3	G(vacant)	G
2		
1		

7. Box, which contains shoes, are two boxes above F, which contains T-shirts.

8. B is immediately above the box, which contains shoes.

9. H is immediately above C, this is not possible in case II(a), so case II(a) is rejected.

10. There are at least two boxes above A, which doesn't contain Watches, so A is box 2 and thus, D is box 8, so C contains watches and A contains caps.

The final arrangement is as follows:

8	D(Trousers)
7	E(vacant)
6	H (Shirts)
5	C (Watches)
4	B (vacant)
3	G (Shoes)
2	A (Caps)
1	F (T-shirts)

Solution 16-20

16. Answer- E

17. Answer- D

18. Answer- B

19. Answer- D

20. Answer- C

1. More than four boxes are below box G.

2. Box G is kept immediately below Glass Type box.

3. Only two boxes are kept between box J and Glass Type box.

4. Box A is a Plastic Type and is kept immediate above or below Glass Type box.

5. Only two boxes are kept between box A and box C.

6. Steel Type box is kept immediately below C.

From these statements, we get four possibilities:

Case-1		Case-2	
		J	
A	Plastic	A	Plastic
	Glass		Glass
G		G	
C		C	
J	Steel		Steel

7. There is only one box kept between Steel Type box and Paper Type box.

8. Only three boxes are kept between Rubber Type and Paper Type box.

9. Only two boxes are kept between box B and Rubber Type box.

10. Box E is kept immediately below box B.

Case-1		Case-2	
		J	
A	Plastic	A	Plastic
	Glass		Glass
G	Rubber	G	Rubber
C		C	
J	Steel		Steel
B		B	
E	Paper	E	Paper

11. Paper Type box is below box D and H. H is not a Glass Type box.

12. Only one box kept between box E and box F, from this case 1 gets eliminated.

Case-2	
J	
H	
A	Plastic
D	Glass
G	Rubber
C	
F	Steel
B	
E	Paper

13. Metal Type box is placed immediate below Wooden Type box but not placed at the bottom most position.

14. Aluminium Type box is above Fibre Type box but below Cotton Type box.

Box	Types
J	Wooden
H	Metal

A	Plastic
D	Glass
G	Rubber
C	Cotton
F	Steel
B	Aluminium
E	Paper
I	Fibre

Case-1		Case-2		Case-3	
Lightest		Lightest		Lightest	
P					
		P			
				P	
U					
		U			
				U	

Solution: 21-25

21. Answer- B

22. Answer- D

23. Answer- B

24. Answer- C

25. Answer- D

1. Only two boxes are placed between box P and U.

2. The lightest box is placed at the top.

3. Only two boxes are lighter than box D.

4. Not more than two boxes are placed between the lightest box and box P.

5. Box U is not the lightest box.

> > > > > D > >

6. Box R contains Phones. The heaviest box contains Diary.

7. Box Q is heavier than box D but lighter than box T.

8. The box which contains Phone is heavier than the box which contains Jersey.

9. Box S is placed below box Q.

So, from the given conditions it is clear that box A is the lightest box.

10. Two boxes are placed between box A and the box which contain Jersey.

11. The box which contains Jersey is placed immediately above the box which contains Diary.

(Diary)> > > > > D > A

Case-1		Case-2		Case-3	
A		A		A	
P					
		P			
	Jersey		Jersey	P	Jersey
U	Diary		Diary		Diary
		U			
				U	

	Toy				
P					Toy
	Jersey		P		Jersey
	Diary				Diary
U	Laptop				
			U		Laptop

12. The box which contain Jersey is heavier than box D.

13. Box Q neither contain Jersey nor Ring.

14. Box U is lighter than the box which contains Ring.

So, from this case-1 gets eliminated.

15. The box which contains Toy which is just heavier than box S which is heavier than box U.

16. U neither contains Headphones nor Bottles.

So, U contains Laptop.

17. Three boxes are placed between the box which contain Toy and the box which contain Laptop.

(Diary)> > > > > D > A

18. Third heaviest box is placed immediately below the box which contains Toy.

So, P is third heaviest box.

19. The box which contain Toy which is just heavier than box S which is heavier than box U.

20. Only one box is placed between heaviest and second heaviest box.

So, from this case-3 gets eliminated.

21. The box contain Headphones is lighter than the box which contain Bottles. Box P does not contain Bottles.

T > R > P > Q > S > D > U > A

Case-2		Case-3	
A		A	

Case-2	Items
A	Headphones
Q	Toy
P	Ring

S	Jersey
T	Diary
U	Laptop
R	Phone
D	Bottles

5				
4				
3	F	~~Coconut~~		
2			F	~~Coconut~~
1				

Solution 26-30

26. Answer- D

27. Answer- B

28. Answer- D

29. Answer- C

30. Answer- A

1) Three boxes are there between Box E and Box F.

2) Neither Box F nor Box E is placed at the topmost or lowermost position.

3) Neither Box F nor Box E contains Coconut.

4) Box F is placed below Box E.

Two cases arise:

No.	Case 1		Case 2	
	Box	Fruit	Box	Fruit
8				
7	E	~~Coconut~~		
6			E	~~Coconut~~

5) There are two boxes between box G and the box which contains Strawberry.

6) Box G is placed above the box which contains Strawberry.

7) Box G is placed above Box E.

8) Neither Box F nor Box G contains Banana.

No.	Case 1		Case 2 (I)		Case 2 (II)	
	Box	Fruit	Box	Fruit	Box	Fruit
8	G	~~Banana~~	G	~~Banana~~		
7	E	~~Coconut~~			G	~~Banana~~
6			E	~~Coconut~~	E	~~Coconut~~
5		Strawberry		Strawberry		
4						Strawberry
3	F	~~Coconut/ Banana~~				
2			F	~~Coconut/ Banana~~	F	~~Coconut/ Banana~~
1						

	Box	Fruit	Box	Fruit	Box	Fruit
8	G	Mango	G	~~Banana~~		Mango
7					G	~~Banana~~
6	E	~~Coconut~~	E	~~Coconut~~	E	~~Coconut~~
5		Strawberry		Strawberry		
4				Mango		Strawberry
3						
2	F	~~Coconut/ Banana~~	F	~~Coconut/ Banana~~	F	~~Coconut/ Banana~~
1						

9) Only one box is between Box E and the box which contains Mango.

Thus, case 1 gets eliminated.

Two subcases of case 2 (I):

No.	Case 2 (I)a	Case 2 (I)b	Case 2 (II)

10) The number of boxes above H is the same as the number of boxes below the box which contains Strawberry.

No.	Case 2 (I)a		Case 2 (I)b		Case 2 (II)	
	Box	Fruit	Box	Fruit	Box	Fruit
8	G	Mango	G	~~Banana~~		Mango
7					G	~~Banana~~

6	E	Coconut	E	Coconut	E	Coconut
5		Strawberry		Strawberry	H	
4	H		H	Mango		Strawberry
3						
2	F	Coconut/ Banana	F	Coconut/ Banana	F	Coconut/ Banana
1						

6	E	Apple	E	Coconut	E	Coconut	E	Coconut
5		Strawberry	H	Coconut	H		H	
4	H	Coconut		Strawberry	C	Strawberry	C	Strawberry
3						Apple		Apple
2	F	Coconut/ Banana	F	Coconut/ Banana	F	Coconut/ Banana	J	Coconut/ Banana
1								Coconut

11) Box C is placed just above the box which contains Apple.

12) Two boxes are between C and the box which contains Coconut.

Thus, case 2 (I) - b gets eliminated.

Three subcases of Case – 2 (II):

No.	Case 2 (I)a		Case 2 (II)a		Case 2 (II)b		Case 2 (III)c	
	Box	Fruit	Box	Fruit	Box	Fruit	Box	Fruit
8	G	Mango	C	Mango		Mango		Mango
7	C		G	Apple	G	Coconut	G	Banana

13) Two boxes are placed between Box H and the box which contain Carrot.

14) Two boxes are there between A and the box which contains Banana.

15) Box A is not the lowermost box.

16) Box A is not placed just below Box E.

Thus, case 2 (I) - a gets eliminated.

No.	Case 2 (II)a(i)		Case 2 (II)a(ii)		Case 2 (II)b(i)	
	Boxes	Fruit	Boxes	Fruit	Boxes	Fruit