RANKING & SITTING ARRANGEMENT

- 1. Rohan ranked seventh from the top and twenty sixth from the bottom in a class. How many students are there in the class?
 - (a) 31 (b) 32
 - (c) 32 (d) 34
 - **Trick**:- Total = Top+Buttom-1

- 2. Sam ranked is 9th from the top and thirty-eighth from the bottom in a class. How many students are there in the class?
 - (a) 45 (b) 46
 - (c) 47 (d) 48
- **Sol**. 9+38-1=46
- 3. A class of boys stands in a single line. One boy is nine-teenth in order from both the ends. How many boys are there in the class?
 - (a) 27 (b) 37
 - (c) 38 (d) 39
- **Sol.** 19+19-1=37
- 4. Manik is fourteenth from the right end in a raw of 40 boys. What is his position from left end?
 - (a) 24^{th} (b) 27^{th}
 - (c) 26th (d) None of these **Trick**:- Left=Total+1-Right 40+1-14=27
- 49th students of a class Nitin gets 18th position from start. What is the rank of Nitin from end?
 - (a) 18 (b) 19
 - (c) 31 (d) 32

Sol. 49 + 1 - 18 = 32

- 6. In a row of students. Mohan is the 13th from the left end. Suman is 12th from Right end and 18th from left end. How many students of Mohan's right?
 - (a) 30
 - (b) 15



- (c) 16
- (d) Can't be determined

Sol. Total students

= 12+18-1=29 So = 29-13=16 students of Mohan's right side

- In a class of 40 students Sachin is 15th from the top Sidharth is 12th from the bottom. How many boys are in between Sachin and Sidharth?
 - (a) 15 (b) 13
 - (c) 12 (d) 16

Trick:- Total– P_1 Position + P_2 Position

- P₁ Person-1 Sachin
- P₂ Person-2 Sidharth
- 40-(15+12)
- 40–27 = 13
- 8. In a class of 80 students Mayank is 13th from the right and Ritu is 18th from the left how many students in between Mayank and Ritu?

(a) 49 (b) 48 (c) 38 (d) 50

Trick:- Total $-(P_1+P_2)$

⇒80 - (18 +13) = 49

TYPE-2

9. A is 10th from left and B is 15th from Right. When A and B exchange their Position then A becomes 15th from the left. What is the new position of B

- from Right?
- (a) 18
- (b) 20
- (c) 19
- (d) Can't be determined
- **Sol**. difference between A's new and old position = 15 -10=5

B's new Position 15+5=20

Trick:- In earlier which question, double information was given in that question we find the difference between old and new position than this difference add on his old position which new position have to be finded.

Note- In this type of question if information was on left side than position remains on same side as given on both side. If left is given and after change right side find then answer of this type of question is can't be determined.

- 10. A is 13th from top, B is 18th from bottom. When A and B change their position then A becomes 21th from top. What is the new position of B from bottom?
- (a) 27 (b) 26 (c) 25 (d) 28 **Sol.** 21-13=8

18+8=26

- 11. In a row of students, Mohan is 10th from right. Sohan is 25th from left. When they change their position then Mohan becomes 22 from right. What is the new position of Sohan from left?
 - (a) 35 (b) 36
 - (c) 37 (d) 38

Sol. 22–10=12, 25+12=37th

- 12. In a row of girls, Kamya is 5th from the left and Preeti is sixth from right.When they exchange their position, then Kamya becomes 13th from the left. What is the new position of Preeti from right
 - (a) 7th (b) 11
 - (c) 14 (d) 18

Sol. 13–5=8, 8+6=14

- 13. In a row of children Deepti is 9th from the left and Kashish is 13th from the right. When they exchange their positions and then Deepti becomes 18th from the left. What is the new position of Kashish from the right end of the row?
 - (a) 22 (b) 25
 - (c) 27 (d) None of these
- **Sol.** 18–9 = 9,
 - 13+9 = 22
- 14. In a row Ram is 23rd from the right, Shyam is 34th from the left. When they exchange their position. then Ram becomes 29th from the right. What is the new position of Shyam from the left?
 - (a) 39 (b) 41
 - (c) 40 (d) 42
- **Sol.** 29–23=6, = 34+6=40
- 15. In a class of students Rita is 15th from the left and Sonu is 18th From the right. When they exchange their position. Then Rita becomes 19th from right. What is the new position of Sonu from left?
 - (a) 22
 - (b) 21
 - (c) 23
 - (d) can't be determined
- **Sol.** Because in this question position after the changing the direction does not change hence answer is can't be determined.

16. In a birth day party Ram stands 36th from the left and Sohan stands 48th from the right, when they exchange their position. Then Ram becomes 48th from left. What is the new position of Sohan from right?

(a) 58 (b) 59

(c) 62 (d) 60

Sol. 48–36=12, 48+12 = 60

TYPE-3

- 17. In a row of boys, if A is 10th from left and B is 9th from the right and interchange their positions, A becomes 15th from the left. How many boys are there in the row?
 - (a) 23 (b) 27
 - (c) 28 (d) 31
- **Sol.** A's new position +B's position 1 15 + 9 - 1 = 23

Trick- In which question double information is given, it's new and old position (changing after position) for that question subject of single information's position add and then -1.

- 18. In a row of girls, If Sujata is 10th from the left and Namrata is 9th from the right, interchange their positions, Sujata becomes 23rd from the left. How many girls are there in the row?
 - (a) 32 (b) 31
 - (c) 30 (d) 34
- **Sol.** Sujata's new Position + Namrata's Position-1 23 + 9 - 1 = 31
- 19. In a row A is 12th from the left and B is 27th from the right interchange their positions, A becomes 18th from the left. What is the total number of people?
 - (a) 44 (b) 42

Sol. 18+27-1= 44

- 20. In a row of students Deepak is 17th from top Sonu is 32th from bottom interchange their positions. Deepak becomes 37th from top. What is the total Number of Students?
 - (a) 68 (b) 69
 - (c) 67 (d) 64
- **Sol.** 37+32-1=68
- 21. In a row of boys If A is 20^{th} from

the left and B is 16^{th} from the right, interchange their Positions. then A becomes 30^{th} from left. How many boys are there in the row?

- (a) 46 (b) 44
- (c) 45 (d) 48
- **Sol.** 30+16-1=45
- 22. In a row of children Deepa is 12th from the left and Vishal is 19th from the right, interchange their Positions then Deepa becomes 19th from the left. How many boys are there in the row?
 - (a) 36 (b) 38
 - (c) 39 (d) 37
- **Sol.** 19+19-1=37
- 23. In a row of people, If Mohan stands 14th from right and Manish stands 19th from left, interchange their positions then Mohan becomes 18th from right. How many people stands in row?
 (a) 35 (b) 36
 - (c) 37 (d) 38
- **Sol.** 19+18-1=36

TYPE-4

- 24. Suresh is 27th from left and Ramesh is 27th from right. If total 49 people in row, how many people between Suresh and Ramesh?
 - (a) 4 (b) 5
 - (c) 3 (d) 6

Trick:- Position of first person-1 + position of second person – Total person – 2

So (-2) because one position (P_1) and other (P_2) .

- Þ 27 + 27 49
- ▶ 54 49 = 5
- Þ 5−2 = 3
- 25. Rohit is 17th from left end of a row of 29 boys, Karan is 17th from the right end in the same row. How many boys are there between them in the row?
 - (a) 3 (b) 5
 - (c) 6 (d) None of these
- **Sol.** 17 + 17 29 2 = 3
- 26. In a class of 40 students, If Kashish is 21th from right and Deepak is 23 from left, How

many boys are there between them in row?

- (b) 2 (a) 3
- (c) 4 (d) 5

Sol. 23 + 21 - 40 - 2 = 2

- 27. In a row of 29 boys, If Rohit is19th from left and Karan is 19th from right. How many boys are there between them in row?
 - (a) 5 (b) 7
 - (d) 8 (c) 6

Sol. 19 + 19 - 29 - 2 = 7

- 28. In a class of 40 students, Deepti is 26th from left and Rani is 26th from right. How many students are there between them in row?
 - (a) 9 (b) 12
 - (c) 10 (d) 11

Sol. 26 + 26 - 40 - 2 = 10

TYPE-5

29. In a row, Rita is 15th from left and Madhu is 18th from right. If there are 4 girls between Madhu and Rita, then how many numbers of total girl in a row minimum?

> (b) 27 (a) 26

- (d) 25 (c) 28
- **Sol.** 15 + 18 (4 + Rita + Madhu) 33 - (4 + 1 + 1)33 - 6 = 27

Trick:- Total = sum of both position - number of person in between both + both person.

- 30. In a class Deepak is 29th from top and Rana is 18th from bottom. If there are 6 boys between Deepak and Rana, Then how many students in class minimum?
 - (a) 37 (b) 38
 - (c) 39 (d) 36
- **Sol.** 29 + 18 (6 + 1 + 1) 47 - 8 = 39

TYPE-6

31. In a class of 49 students, A is the 17th from top and B is the 11th from bottom. If C is exact Middle of A and B. how many students between B and C (a) 9 (b) 10 (c) 11 (d) 12

Trick:- First we add that

positions after that subtract from total and then divide by 2. Step

(i) 17 + 11 = 28

(ii) $49 - 28 = 21 \text{ p} \quad \frac{21}{2} = 10.5$

Let it be 10

answer will be 10

32. In a row of 44 people, Vinay is12th from left and Ramu is 17th from right. If Sinu is exact iddle of Vinay and Ramu. How many people between Vinay and Sinu?

Sol.
$$44 - 12 + 17$$

$$44 - 29 = 15 \text{ p} \quad \frac{15}{2} = 7.5 = 7$$

33. In a class of 79 students Rita is 40th from left and Simran is 33th right. If Priya is exact middle of Rita and Simran. How students many between simran and Priya?

Sol. 79 - 40 - 33 = 6 $p = \frac{6}{2} = 3$

- 34. In a row of 40 children, P is 13th from the left end and Q is 9th from the right end. How many children are there between P and R. If R is 4th to the left of Q?
 - (a) 12 (b) 13
 - (c) 14 (d) 15
- **Sol.** Q = 9^{th} from right and R is 4^{th} to the left of Q. So R is 13th from right total number of children to the left of R = 40 + 1 - 13 = 28 $P = 13^{th}$ from left

28 - 13 - 1 = 14 (in between P and R)

- 35. In a row of boys, A is 13th from left and D is 17th from right. If A is 11th from right in this line what is the position of D from left?
 - (a) 6 (b) 7
 - (c) 5 (d) 8

= 13 + 11 - 1 = 23

O D is 17th from right

- = Total + 1 right
- $= 23 + 1 17 = 7^{\text{th}}$
- 36. In a row of boys, A is 15th from left, B is 4th from right. 3 boys between A and B, C is immediate left of A. What is the position of C from right?
 - (a) 9 (b) 10
 - (d) 13 (c) 12
- **Sol.** Total = 15 + 4 + 3 = 22

Q C is on just left side of A

 \setminus C is 14th from left

(Total + 1 - Left)

Position of C from right = 22 +1 - 14 = 9

SEATTINGARRANGEMENT

TYPE-(I)

Circle based

If facing toward center



If facing towards center outside Ε



Note: 'And' in a statement denote the first subject and 'who' denote the besides of subject

> For Arrangement we have to pick that point in which we have more information. And after that we have to continue to related point.

1. Six friends A,B,C,D and F seating in a circle facing towards center. E is the left of D. C seats between A and B and F is between E and A.

(a). Who is seating immediate right of C?

(a) A	(b) C
(c) B	(d) E

Sol. (a)



- (b). Who is sitting immediate left of B?
 - (a) C (b) D
 - (c) F (d) None of these

Sol. (b)

- 2. P,Q,R,S and T are seating around a circular table. R is to the right of P and second to the left of S. T is not between P and S. Who is second to the left of R?
 - (a) L
 - (b) S
 - (c) T
 - (d) Data inadequate



[Because R have more information that why R pick

Answer:- Q sit second left of R

Q is 2nd to the left of R

- 3. A,B,C,D,E and F are seating around a circular table. A is between E and F, E is opposite D and C is not in either of the neighbouring seats of E. Who is opposite to B
 - (a) C (b) D
 - (c) F (d) None of these



First we have to arrange A in between E and F then E opposite to D and B opposite of F

4. Six persons A, B, C, D, E and F are standing in a circle. B is between D and C, A is between E and C. F is to the right of D. who is between A and F?





First we have to arrange B in between D and C then F is to the right of D then A between E and C.

- 5. Six persons A,B,C,D,E and F standing in a circular boundary facing towards center. B is between F and C. A is between E and D. F is to the left of D who is seating between A and F ?
 - (a) E (b) D (c) C (d) B



First F sits D's left and D in between A and E, B in between F and C

- 6. Eight person A,B,C,D,E,F,G and H are seating as showing below figures. And if they are facing towards outside. If all persons move two position in clock wise direction. Which direction H facing after move two position from current one?
 - (a) (N.E) (b) (N)
 - (c) (N.W) (d) (E)





After Change two position clock wise direction



- 7. Six girls standing in a circle facing towards center. Sabbu is left to the Pappu. Rewati is between sabbu and Nisha, Aruna is between Pappu and Kirtan. Who is left to the Pappu?
 - (a) Sabbu (b) Kirtan
 - (c) Nisha (d) Aruna
- Sol. (a) First we arrange Pappu and Sabbu after that Aruna in between Pappu and Kirtan after that Rewati in between Sabbu and Nisha



Sabbu is left of Pappu

- 8. Six friends M, N, O, P, Q and R standing in a circle. N is between O and P, M is between O and Q. R and P is standing together. Who is standing between M and R?
 - (a) N (b) P
 - (c) O (d) Q
- Sol. (d) Here is possibility of two arrangement



Q in between M and R

Type-2 Square based Questions

When facing in side



When facing out side



Directions (Q. 9-10):- Four friends A,B,C and D are playing carom. A is facing towards south, D is facing towards East, C is facing towards west and B is seating left of C.

9. Who is seating right of C? (Ans -A)





Direction (Q.11):- K,L,M,P,Q,R,S and T are seating around a square table in such way that four sit at corner and 4 sit at middle one who sit at corners facing outside and one who sit at middle facing towards center, P is 3rd right of S and facing towards center. Q is 3rd to the left of M but M is not sit at middle. One person between Q and R. R is not neighbour of M, T facing towards center. K is not neightbour of R.

11. Who is seating between Q and R



TYPE-3 ROW/LINE BASED QUESTIONS



(when North facing) When South facing Right Left

Direction (Q.12):- 6 students seating in a row. P is seating between L and I, L is seating after N. N is sitting after D. D is seating left end. T is seating after I.

12. Who is seating 4th to the left end

Left
$$\frac{\uparrow}{D}$$
 $\stackrel{\uparrow}{N}$ $\stackrel{\uparrow}{L}$ $\stackrel{\uparrow}{P}$ $\stackrel{\uparrow}{I}$ $\stackrel{\uparrow}{T}$ Right

SQUARE BASED QUESTIONS

TYPE -2

- 13. Four girls and four boys sitting in a square facing towards center. Each of them sitting on the corner of square and middle of square. Madhu is diagonal front of Usha who is seating to the right of Geeta. Rai is next to Geeta and front of Gopi who is left to the boss. Seema is not right of Madhu and front of Prema. Who is seating infront of boss?
 - (a) Geeta (b) Prema
 - (c) Seema (d) Madhu



14. Radha, Sheela, Mahima, and Seeta sitting around a square Table. Radha is right to the Sheela. Mahima is left to the Seeta. Who is sitting infront of each other

- (a) Sheela-Seeta
- (b) Radha-Seeta
- (c) Radha-Sheela
- (d) Mahima-Radha



Row and Line Based Question

- 15. Five friends A,B,C,D and E are standing in a row. Facing south but not necessarily in the same order. Only B is between A and E, C is Immediate right to E and D is immediate left to A. Which of the following statements is definitely true?
 - (a) B is to the left of A
 - (b) D is third to the left of E
 - (c) B is to the right of E
 - (d) A is third to the left of B

16. A,P,R,X,S and Z are sitting in a row S and Z are in the center and A and P are at the ends. R is sitting on the left of A. Then who is sitting on the right of P?

(c) X

Sol. (c) Rig

(d) Z

- 17. Roshan is taller than Hardik. Hardik is smaller than Sushil. Nija is taller than Hari but smaller than Hardik. Sushil is smaller than Roshan who is the tallest among them?
 - (a) Sushil (b) Hardik
 - (c) Hari (d) Roshan
- Sol. Roshan, Sushil > Hardik Hardik > Nija > Hari Roshan > Sushil Roshan > Sushil > Hardik > Nija > Hari
- 18. While the group photo of a family was taken the father was found to be sitting to the left of the son and right to the grandfather. Mother was sitting to the right of her daughter but left to the grandfather. Who is occupying the central place?

(a) Son(b) Grandfather(c) Father(d) Mother

Sol. (b)

19. Five schools A,B,C,D and E whose face is towards north. A is between E and B while E is the right to the D. D and C are at the ends. Who is left to the C?

(a) D (b) A (c) E (d) B Sol. (d) $\uparrow \uparrow \uparrow \uparrow$ D E A B \longrightarrow Right Left \leftarrow

- Right Left
 In a restaurant five guests sitting in a row. Nita is left to the Manju and right to the Navin. Rishav is right to the Kavita and left to the Navin, Where is Navin sitting.
 - (a) Right end
 - (b) Middle
 - (c) left end
 - (d) second to the right

- 21. Six students A, B, C, D E and F standing in a line. B is between F and D. E is between A and C. A is not standing beside F and D. C is not standing beside D. F is sitting between.
 - (a) C and F (b) B and D
- (c) C and B (d) None of these Sol. (c)

- 22. Five friends Suresh, Kaushal, Madhur, Amit and Ramesh. Suresh is smaller than kaushal but taller than Ramesh. Madhur is tallest among them. Amit is smaller than Kaushal but taller than Suresh. If they are standing according to their height respectively who is become smallest among them.
- Sol. Madhur > Kaushal > Amit > Suresh > Ramesh

23. A, B, C, D, E, F and G sitting on a bench facing East. C is immediate right of D. B is sitting on any end and E is neighbour of G. G is between E and F. D is 3rd to the south where is D sitting.





Right/South

DOUBLE ROW BASED QUESTION

- 24. Six friends P, Q, R, S, T, U sitting in a row some facing towards North and some towards South
- (i) Q is facing towards North but not sitting next of S.
- (ii) S and U facing digonal opposite direction
- (iii) R is sitting next of U and facing towards South and T is facing north side.

- $\begin{array}{c|c} & & & & \\ \hline Q & & T & & S \end{array}$ North Facing
- 25. Twelve People are sitting in two parallel rows containing six People each, in such a way that there is equal distance between adjacent persons. In row-I B, C, D, E, F and G are seated and all of them are facing south. In row-2 P, Q, R, S, T and U are seated and all of them are facing north. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row. (Please note: None

of the information given in necessarily in the same order). R sits second to the right of S. Only one person sits between R and U. C sits to the immediate left of the one who faces U. Only two people sit between C and F. Q sits fourth to the left of T. G is an immediate neighbour of the one who faces T. D does not face R. B sits third to the right of D. E is an immediate right of B. G does not face P. Who amongst the following is facing C?

- 26. Five boys standing in a row and facing towards South. Anand is standing immediate right of Ramu. Chandan is between Ramu and Sohan. No one standing immediate Right of Babu. Who is standing in exact middle of Row.



TYPE-4

- **Hexagon based Question:**-Six people A, B, C, D, E and F are seating on the ground in a hexagonal shape. All the shapes of hexagon so formed are of same length. A is not adjacent to B or C. D is not adjacent to C or E. B and C are adjacent F is the middle to D and C ?
- 27. Who is at the same distance from D as E is from D?

