

## SNS COLLEGE OF TECHNOLOGY

**COIMBATORE-35** 



# DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING 19GET275 - VQAR-1

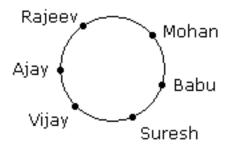
In order to solve seating arrangement questions, first of all diagram should be made. By doing so questions are easily and quickly solved.

#### Example 1:

- 1. 6 Boys are sitting in a circle and facing towards the centre of the circle.
- 2. Rajeev is sitting to the right of mohan but he is not just at the left of Vijay.
- 3. Suresh is between Babu and Vijay.
- 4. Ajay is sitting to the left of Vijay.

Who is sitting to the left of Mohan?

### Solution:



Hence, Babu is sitting to the left of Mohan.

#### Example 2:

- 1. Eleven students A, B, C, D, E, F, G, H, I, J and K are sitting in first line facing to the teacher.
- 2. D who is just to the left of F, is to the right of C at second place.
- 3. A is second to the right of E who is at one end.
- 4. J is the nearest neighbour of A and B and is to the left of G at third place.
- 5. H is next to D to the left and is at the third place to the right of I.

Who is just in the middle?

A.CATHERINE/AP/AIML

Solutio	n :			Teach •	ier					
• E	• K	• А	• J	• В	• I	• G	• C	• H	• D	• F
Hence,	l is just	in the	middle.							
1. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the ends. R is sitting to the left of A. Who is to the right of P? A X S Z Answer: Option Explanation:										
The se	ating ar	rangem	ent is a	as follow	/s:					
•	•	•	•	•	•					
Р	X	S	Z	R	Α					
Therefo	ore, righ	t of P is	s X.							
Nine persons A, B, C, D, E, F, G, H, I are watching a movie in a theatre sitting in a row facing North. B is at one end of the row. H is seated adjacent to both F and G. C is to the immediate right of D and at third place to the right of E. A is immediate left of F. F is at the third place to the left of B.  Q1. Who is sitting at the centre of the row?  1. R  2. A  3. F  4. H										
informathe row B Next in arrange of F in	ation. It  I. So we  the last ement w the seco	is giver have th t line it yill be re ond arra	n that B ne follow or is given ejected angeme Again th	is at on wing tw ————— that F i as there ent, we g nere is i	o cases.  — — — — is at the e is no poset in the contract of t	f the ro _ B third pl lace to ion abo	w. So B lace to t the left out the p	may be the left of B. N	of B, so low fix t	er end of the first he position ith respect ngement

will be A F B.  Just keep on looking for the information which will relate the remaining persons with those who are already arranged. It is given that H is seated adjacent to both F and G. So H is in between F and G. So we have A F H G B.  Now C is at third place to the right of E. So there is only one possibility that E sits at the other extreme end. We have the arrangement E C A F H G B. Now C is to the immediate right of D. So the final arrangement is E I D C A F H G B.  Hence, A is sitting at the centre of the row. Therefore, the answer is option 2.
Q2. Who is at the other end of the row?
1. A
2. E
3. G
4. C
Sol: The final arrangement is E I D C A F H G B. Hence, E is at the other end of the
row. Therefore, the answer is option 2.
Q3. Which of the following statements is true?
1. E is two seats away from A.
2. D is at one extreme end.
3. I and G are neighbours.
4. There is one person between F and C
Sol: The final arrangement is EIDCAFHGB. Hence, "There is one person between
F and C" is true. Therefore, answer is option 4.
Q4. What is the position of F with respect to D?
1. Second to the right
2. Second to the left
3. Third to the right

**Directions for Questions 6 to 10:** Read the following information and answer the given questions:

Sol: The final arrangement is EIDCAFHGB. Hence, F is sitting third to the right of

A, B, C, D, E, F, G and H are eight friends sitting round a circle facing towards the centre.

- i. H is not a neighbour of E and D and he is sitting immediate left of A.
- ii. G is the neighbour of E. F is to the immediate right of B.

4. Fourth to the left

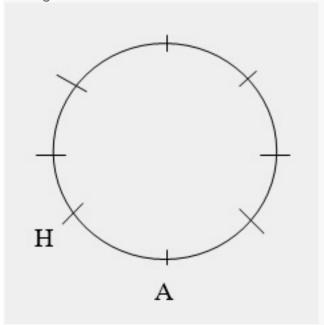
D. Therefore, answer is option 3.

# iii. C is sitting between E and F.

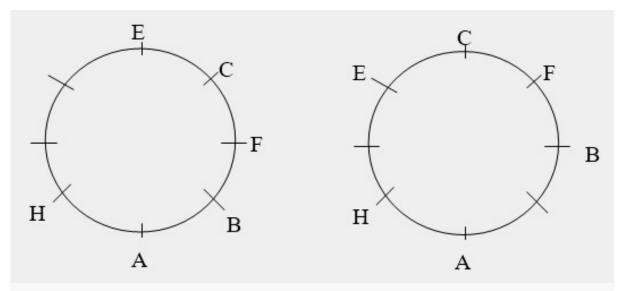
**Q6.** Which of the following statements is true?

- 1. E is sitting between F and B
- 2. F is the neighbour of G
- 3. G is sitting between H and E
- 4. H is sitting between A and D

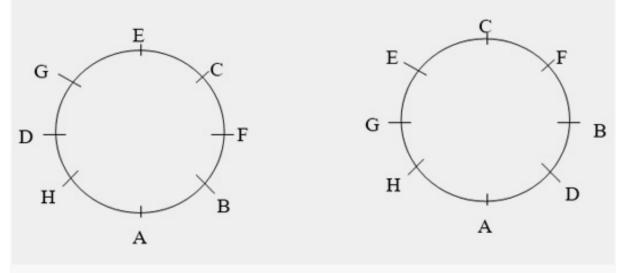
**Sol:** This problem is based on the circular sitting arrangement. Here the persons are sitting facing the centre. It is given that H is immediate left of A. So let us first arrange A and H.



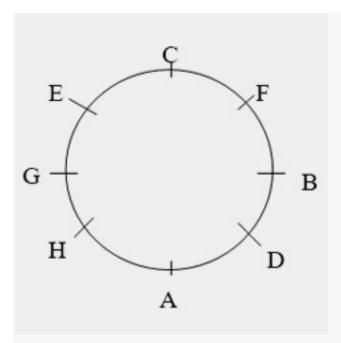
Now F is to the immediate right of B and C is sitting between E and F. It means that B, F, C and E are sitting together. Now the position of B is not defined. So we have following arrangements.



Note that B cannot be third to the right of A as in that case E will become the neighbour of H which the first condition say, cannot happen. Now it is further given that G is the neighbour of E. So we can arrange, in both the above arrangements, G and D as



Now in the first arrangement, D is the neighbor of H. So this is not a valid arrangement. So the final arrangement is:

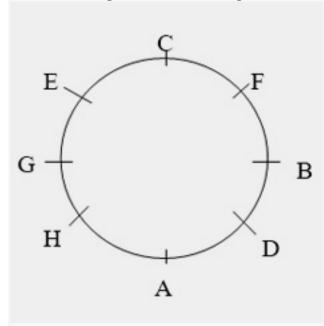


Hence, G is sitting between H and E is true. So, the option 3 is the answer.

**Q7.** What is the position of D?

- 1. On the immediate left of B
- 2. Second to the right of F
- 3. Between B and F
- 4. On the immediate left of A

**Sol:** According to the final arrangement.



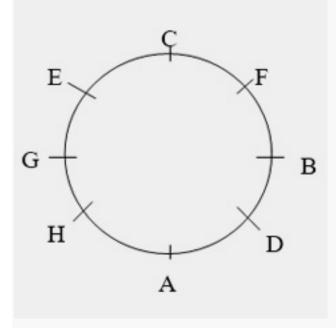
D is on the immediate left of B. So answer is option 1.

Q7. What is the position of D?

1. On the immediate left of B

- 2. Second to the right of F
- 3. Between B and F
- 4. On the immediate left of A

**Sol:** According to the final arrangement.

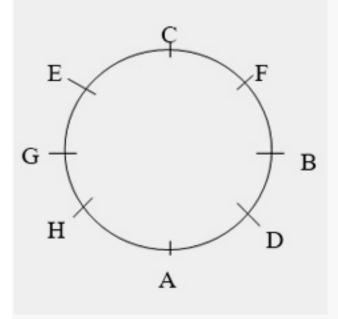


D is on the immediate left of B. So answer is option 1.

Q8. What is the position of G?

- 1. Second to the left of D
- 2. Third of the right of F
- 3. On the immediate right of H
- 4. Between E and C

**Sol:** According to the final arrangement.

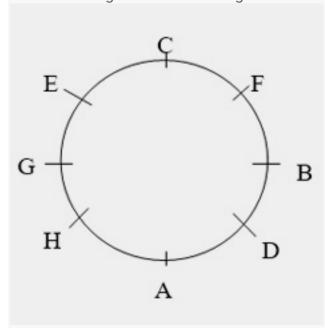


G is third of the right of F. So answer is option 2.

Q9. Who are the neighbors of A?

- 1. H and D
- 2. H and E
- 3. B and C
- 4. E and C

**Sol:** According to the final arrangement.

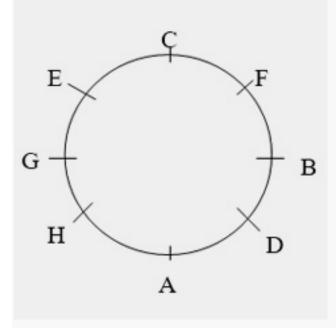


H and D are the neighbors of A. Hence the answer is option 1.

**Q10.** What is the position of E with respect to H?

- 1. Third to the left
- 2. Second to the right
- 3. Second to the left
- 4. Third to the right

**Sol:** According to the final arrangement.



E is second to the left of H. Hence option 3.