Seating Arrangement Questions Overview

Seating Arrangement Questions have a good weightage in the Banking Exam and the type of question asked in Banking exam is similar to the question mentioned below. It has been solved and explained by Gargi.ai Experts and they have tried to elaborate the concept used in Seating Arrangement Questions.

Seating Arrangement Questions

Directions: Read the given information carefully and answer the following questions. 10 people (A - J) are seated on a hexagonal table having 12 seats available of which 2 are vacant. All of them are facing inside. No two vacant seats are near each other. No two persons sit adjacent to each other according to the English alphabet (i.e. B does not sit adjacent to A and C and so on). They wear 6 different color shirts and a maximum of two people can wear the same color shirt viz. Yellow, Black, Blue, White, Grey, and Pink but not necessarily in the same order. A who sits at the corner sits immediately left of the vacant seat and three persons are between A and D who wears a Pink shirt. G and E wear the same color shirt but not wear Yellow and Black. D sits second to the left of C and third to the right of F who wears a Black shirt. Only one person sits between F and J who sits immediately left of A who wears a Black shirt. Only four people are between G and H and none of these two sit near F. The one who wears the white shirt sits immediately right of H while only I wear a Blue shirt and sit second to the right of G. B sits sixth to the left of E who wears a Grey shirt. The one who wears a Grey shirt sits immediately right of the one who wears a Yellow shirt. The one who wears a white shirt sits third to the left of the one who wears a yellow shirt. There is one vacant seat between G and H when counted from the either right or left side of them.

Question

Which one is correct?

Difficulty : Difficult

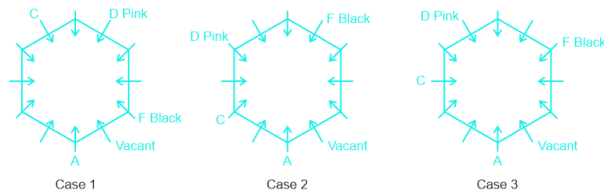**Average Time : 109 Seconds**

Options :
1. E - White
2. I - Pink
3. A - Black
4. B - Black
5. H - white

Solution

The correct answer is **option 3** i.e. **A - Black**

1. A who sits at the corner sits immediate left of the vacant seat and three persons are between A and D who wears a Pink shirt. (Here, we have three cases i.e. Case 1, Case 2, and Case 3, In Case 3 we assume that there is a vacant seat between A and D when counted from the left of A.)
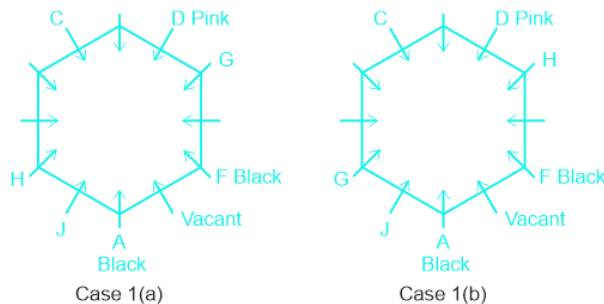
2. D sits second to the left of C and third to the right of F who wears a Black shirt.

3. Only one person sits between F and J who sits immediate left of A who wears a Black shirt.

Now, we can eliminate Case 2 and Case 3. (Because more than 1 person sit between F and J who sits immediate left of A)

4. Only four people are between G and H and none of these two sit near F. There is one vacant seat between G and H when counted from the either right or left side of them. (Here, we have two cases i.e. Case 1(a) and Case 1(b))

5. The one who wears the white shirt sits immediately right of H while only I wear a Blue shirt and sit second to the right of G.

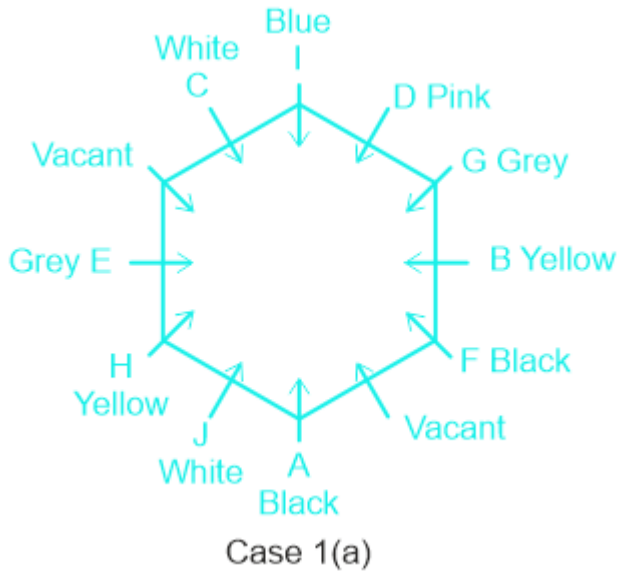(Now, we can eliminate Case 1(b) because The one who wears the white shirt sits immediately right of H)

6. B sits sixth to the left of E who wears a Grey shirt. (i.e. E doesn't sit adjacent to F, so, E sits near H)

(So, the second vacant seat is between E and C)

7. G and E wear the same color shirt but not wear Yellow and Black. (i.e. G wears a Grey shirt)

8. The one who wears a Grey shirt sits immediately right of the one who wears a Yellow shirt. (i.e. B wears Yellow shirt)

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9. The one who wears a white shirt sits third to the left of the one who wears a yellow shirt. (i.e. C wears a white shirt andH wears a Yellow shirt)

Case 1(a)

This is our final arrangement.

Clearly, A - Black is correct.

Hence, the correct answer is **A - Black.**