



Date : 14th Dec 2023

Special Question – Logical Reasoning

English

Direction 1 – 5 : Read the following information carefully and answer the question given below.

Six friends I, O, E, H, M, and X are sitting around a circular table in an arrangement, called Arrangement P. All of them are facing the center. H faces M. One person sits between M and E, who doesn't sit adjacent to X. Two persons sit between I and X. O doesn't sit to the immediate left of X.

When all the persons are seated as per English alphabetical order starting from E, being at the same position in a clockwise direction, the new arrangement is obtained, called the arrangement Q.

Q:1 Who among the following remains in the same position after rearrangement except for E?

1. X
2. M
3. I
4. O
5. No one

Q:2 Which of the following statements is correct with respect to Arrangement P?

1. I is not an immediate neighbor of E.
2. H sits to the immediate right of X.
3. Three persons sit between I and O, when counted from the left of I.
4. H and E sit adjacent to each other
5. All statements are false

Q:3 What is the position of H with respect to E in Arrangement Q?

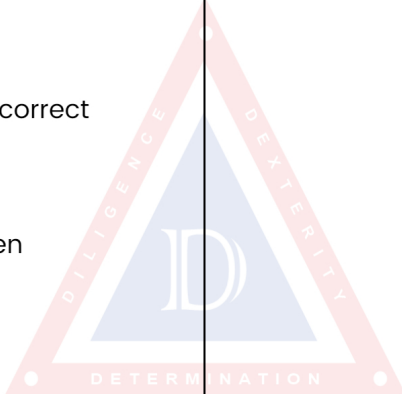
1. Immediate right
2. Second to the left
3. Third to the right
4. Second to the right
5. None of these

Q:4 Who sits exactly between the one, who is opposite H in arrangement P and the one, who is to the immediate left of X in arrangement Q. (Note: Find the middle sitting person in Arrangement P)

1. I
2. X
3. H
4. Both 1 and 2
5. Either 1 or 3

Q:5 Who sits to the immediate right of H before rearrangement?

1. O
2. X
3. E
4. Either 1 or 2
5. None of these



Date : 14th Dec 2023

Special Question - Logical Reasoning

English

Answer Key

1. (5) 2. (4) 3. (5) 4. (4) 5. (2)

Answers and Solutions

Q:1 The correct answer is **Option 5** i.e. **No one**

For Arrangement P:

H faces M. (This means, two persons, sit between H and M from either direction)

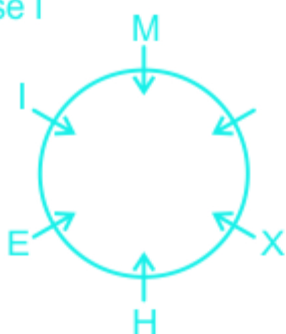
Two persons sit between I and X. (This means, I and X would sit opposite each other)

One person sits between M and E, who doesn't sit adjacent to X. (Here, we have two cases)

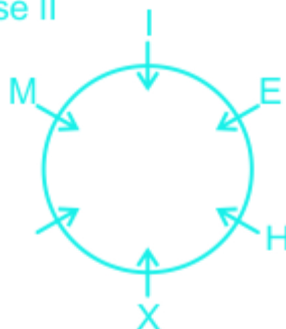
Case I: I would sit to the immediate left of E and X would be opposite I.

Case II: I would sit to the immediate right of E and X would be opposite I.

Case I

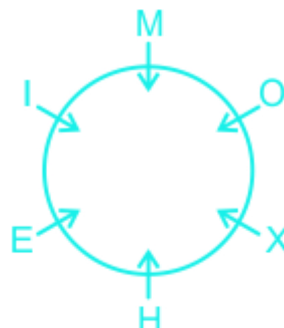


Case II



Now, the remaining place would be occupied by O. O doesn't sit to the immediate left of X. (This makes case II invalid)

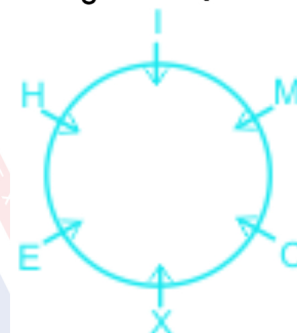
So, case I is the final arrangement.



For Arrangement Q:

When all the persons are seated as per the English alphabetical order of letters of their names starting from E, being at the same position in a clockwise direction, the new arrangement is obtained, called the arrangement Q.

Arrangement Q:



No one remains in the same position after rearrangement except E.

Hence, the correct answer is **No one**.

Q:2 The correct answer is **Option 4** i.e. **H and E sit adjacent to each other**

For Arrangement P:

H faces M. (This means, two persons, sit between H and M from either direction)

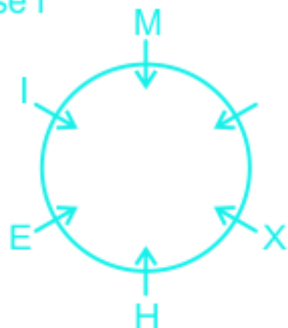
Two persons sit between I and X. (This means, I and X would sit opposite each other)

One person sits between M and E, who doesn't sit adjacent to X. (Here, we have two cases)

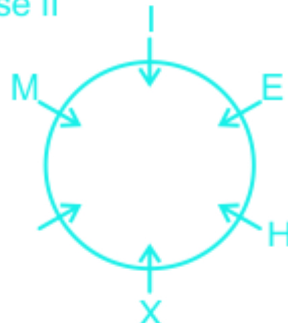
Case I: I would sit to the immediate left of E and X would be opposite I.

Case II: I would sit to the immediate right of E and X would be opposite I.

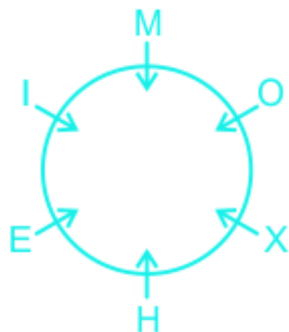
Case I



Case II



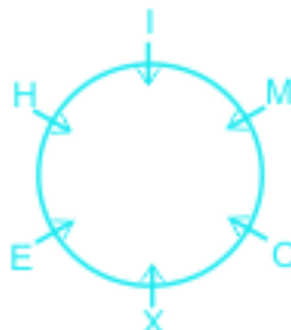
Now, the remaining place would be occupied by O.
O doesn't sit to the immediate left of X. (This makes case II invalid)
So, case I is the final arrangement.



For Arrangement Q:

When all the persons are seated as per the English alphabetical order of letters of their names starting from E, being at the same position in a clockwise direction, the new arrangement is obtained, called the arrangement Q.

Arrangement Q:



We can see that H and E sit adjacent to each other in Arrangement P.

Hence, the correct answer is **H and E sitting adjacent to each other.**

Q:3 The correct answer is **Option 5** i.e. **None of these**

For Arrangement P:

H faces M. (This means, two persons, sit between H and M from either direction)

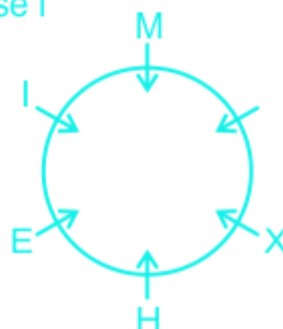
Two persons sit between I and X. (This means, I and X would sit opposite each other)

One person sits between M and E, who doesn't sit adjacent to X. (Here, we have two cases)

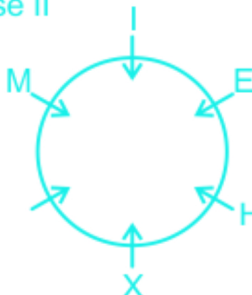
Case I: I would sit to the immediate left of E and X would be opposite I.

Case II: I would sit to the immediate right of E and X would be opposite I.

Case I



Case II



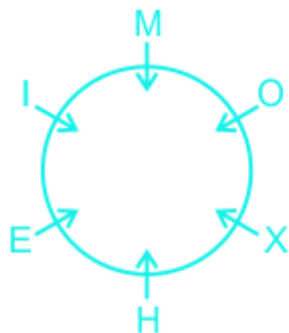
Date : 14th Dec 2023

Special Question - Logical Reasoning

English

Now, the remaining place would be occupied by O.
O doesn't sit to the immediate left of X. (This makes case II invalid)

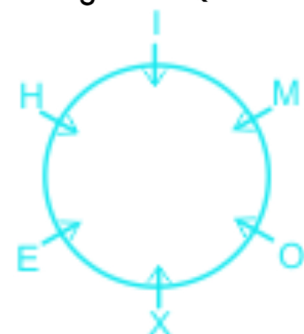
So, case I is the final arrangement.



For Arrangement Q:

When all the persons are seated as per the English alphabetical order of letters of their names starting from E, being at the same position in a clockwise direction, the new arrangement is obtained, called the arrangement Q.

Arrangement Q:



H sits to the immediate left of E in Arrangement Q.
Hence, the correct answer is **None of these**.

Q:4 The correct answer is **Option 4** i.e. **Either 1 or 2**

For Arrangement P:

H faces M. (This means, two persons, sit between H and M from either direction)

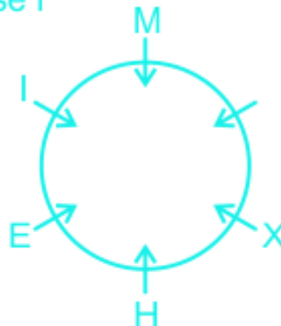
Two persons sit between I and X. (This means, I and X would sit opposite each other)

One person sits between M and E, who doesn't sit adjacent to X. (Here, we have two cases)

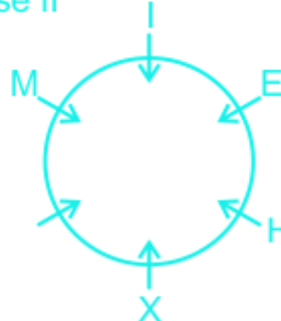
Case I: I would sit to the immediate left of E and X would be opposite I.

Case II: I would sit to the immediate right of E and X would be opposite I.

Case I

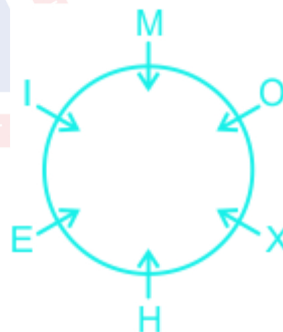


Case II



Now, the remaining place would be occupied by O.
O doesn't sit to the immediate left of X. (This makes case II invalid)

So, case I is the final arrangement.



For Arrangement Q:

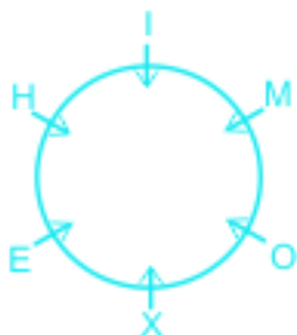
When all the persons are seated as per the English alphabetical order of letters of their names starting from E, being at the same position in a clockwise direction, the new arrangement is obtained, called the arrangement Q.

Arrangement Q:

Date : 14th Dec 2023

Special Question - Logical Reasoning

English



I and X sit between the one, who is opposite H in Arrangement P. i.e. M, and the one, who is to the immediate left of X in Arrangement Q. i.e. E. Hence, the correct answer is **Either 1 or 2**.

Q:5 The correct answer is **Option 2** i.e. **X**

For Arrangement P:

H faces M. (This means, two persons, sit between H and M from either direction)

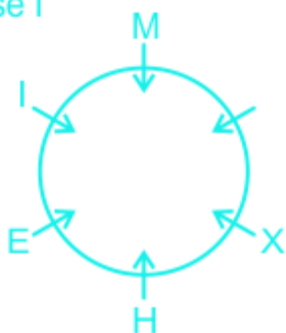
Two persons sit between I and X. (This means, I and X would sit opposite each other)

One person sits between M and E, who doesn't sit adjacent to X. (Here, we have two cases)

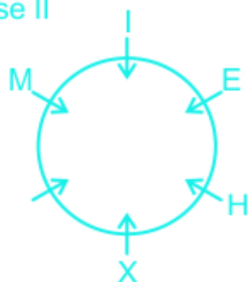
Case I: I would sit to the immediate left of E and X would be opposite I.

Case II: I would sit to the immediate right of E and X would be opposite I.

Case I

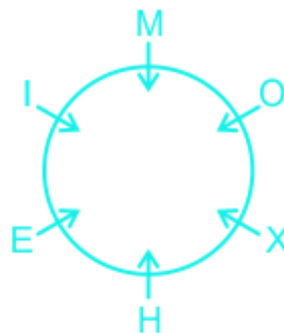


Case II



Now, the remaining place would be occupied by O. O doesn't sit to the immediate left of X. (This makes case II invalid)

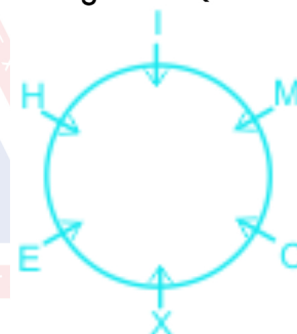
So, case I is the final arrangement.



For Arrangement Q:

When all the persons are seated as per the English alphabetical order of letters of their names starting from E, being at the same position in a clockwise direction, the new arrangement is obtained, called the arrangement Q.

Arrangement Q:



X sits to the immediate right of H before rearrangement.

Hence, the correct answer is **X**.