MBA PRO 2025 (CAT + OMETs)

Data Interpretation & Logical Reasoning

DPP: 1

Basics of Logical Reasoning

Directions (1-5) Read the following passage and answer the given questions.

There are 6 peoples Aman, Baman, Chaman, Deepak, Eesh, and Faisal sitting around a circular table facing towars the centre.

If it is given that:

1. Deepak sits opposite to Eesh.
2. Faisal sits second to the left of Eesh.
3. Baman can not sit opposite to Chaman
4. Deepak sits immediate right of Baman.

Q1 Who sits opposite to Aman ?
(A) Baman   (B) Chaman
(C) Deepak   (D) Eesh

Q2 Who sits second to the right of Eesh ?
(A) Aman   (B) Baman
(C) Chaman   (D) Deepak

Q3 Which is the odd pair?
(A) Faisal, Chaman
(B) Aman, Baman
(C) Deepak, Eesh
(D) Aman, Chman

Q4 What can be the number of persons sitting between C and D ?
(A) 2   (B) 3
(C) 4   (D) 5

Q5 Who sits between F and right of B ?
(A) A   (B) B
(C) C   (D) D

Directions (6-10) Read the following passage and answer the given questions.

Eight people are seated in a linear row facing north. Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row. Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu. Anil is seated to the left of Parul. Nisha is seated to the immediate left of Ekta. Shyam is seated to the left of Manju.

Q6 How many people are seated to the left of Parul?
(A) 1   (B) 2
(C) 3   (D) 4

Q7 The number of people seated between Radha and Ekta is the same as the number of people seated between _____ and Parul.
(A) Shyam   (B) Anil
(C) Jaggu   (D) Nisha

Q8 The number of people seated to the left of Shyam is the same as the number of people seated to the right of _____.
(A) Nisha   (B) Parul
(C) Radha   (D) Jaggu

Q9 Which of these statements is true?
(A) Jaggu is seated at the left end of the row
(B) Four people are seated between Shyam and Ekta
(C) Parul is an immediate neighbor of Manju
(D) All of these

Q10 What is the position of Nisha with respect to Parul?
(A) 2nd to the left
(B) 3rd to the right
(C) 2nd to the right
(D) 3rd to the left

Directions (11-15) Read the following passage and answer the given questions.

Seven persons D, E, F, G, H, I and J belong to three different cities, viz Bangalore, Calcutta and Ahmedabad with at least two persons from each city. Each of them likes a different color – Yellow, Black, Green, White, Blue, Orange and Pink – but not necessarily in the same order.

E likes Black. I does not like Blue but he belongs to Calcutta with J. E belongs to a city only with D and H but is not from Ahmedabad. H does not belong to Calcutta but he likes Orange. The one who likes Pink does not belong to either Bangalore or Calcutta. D likes Green. The one who likes Black does not belong to Calcutta. J does not like Pink. F belongs to Ahmedabad only with the person who likes White.

Q11 Which person among the following likes the colour Yellow ?
(A) I
(B) J
(C) G
(D) F

Q12 Which pair is the Odd-One ?
(A) F, G
(B) D, E
(C) H, I
(D) I , J

Q13 Who likes the colour 'White' ?
(A) E
(B) H
(C) I
(D) G

Q14 Which of the following combination is correct ?
(A) E - Bangalore - Pink
(B) J - Calcutta - Yellow
(C) I - Bangalore - Yellow
(D) None of these

Q15 Which of the following is false ?
(A) I likes Yellow
(B) G belongs to Ahmedabad
(C) F likes White
(D) J likes Blue

Answer Key

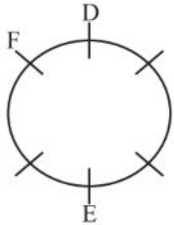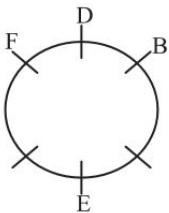|				
Q1	(A)		Q9	(D)
Q2	(B)		Q10	(B)
Q3	(D)		Q11	(A)
Q4	(B)		Q12	(C)
Q5	(D)		Q13	(D)
Q6	(C)		Q14	(D)
Q7	(B)		Q15	(C)
Q8	(C)			

Hints & Solutions

Note: scan the QR code to watch video solution
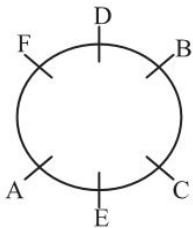
Q1. Text Solution:

For convenience we take the first letter of the name of the persons as A, B, C, D, E, and F.

By using condition 1 and 2 we can say that,

Now by using condition (4) we get,

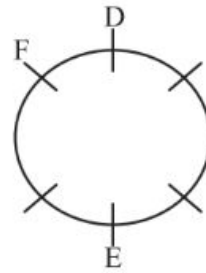Now by using condition 3 we get the final arrangement as,

From the final arrangements we can say that, B sits opposite to A.

Video Solution:

Now by using condition (4) we get,

Now by using condition 3 we get the final arrangement as

From the final arrangement we can say that B sits second to the right of E.
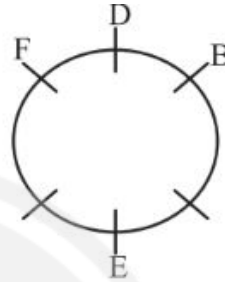
Video Solution:

Q2. Text Solution:

For convenience we take the first letter of the name of the persons as A, B, C, D, E, and F.

By using condition 1 and 2 we can say that,
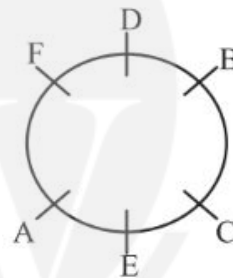
Q3. Text Solution:

For convenience we take the first letter of the name of the persons as A, B, C, D, E, and F.

By using condition 1 and 2 we can say that,

Now by using condition (4) we get,

Now by using condition 3 we get the final arrangement as

In options A, B, and C people are sitting opposite each other. Hence option D will be the odd pair.
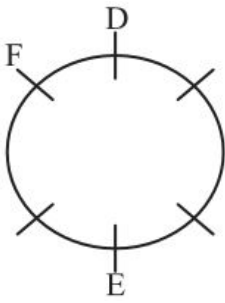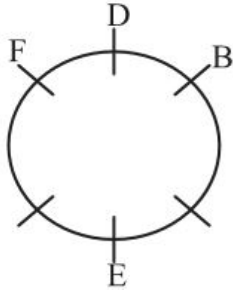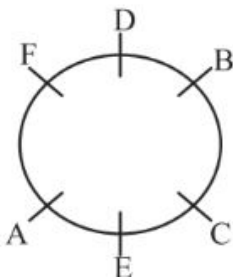
Video Solution:

Q4. **Text Solution:**

For convenience we take the first letter of the name of the persons as A, B, C, D, E, and F.

By using condition 1 and 2 we can say that,

Now by using condition (4) we get,

Now by using condition 3 we get the final arrangement as

The number of people between C and D are 1 or 3.

1 is not in the options so 3 is the correct choice.

Video Solution:

Q5. **Text Solution:**

For convenience we take the first letter of the name of the persons as A, B, C, D, E, and F.

By using condition 1 and 2 we can say that,

Now by using condition (4) we get,

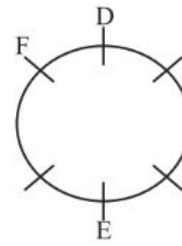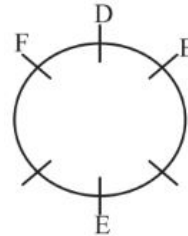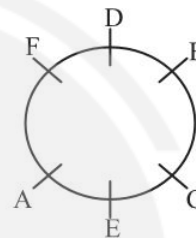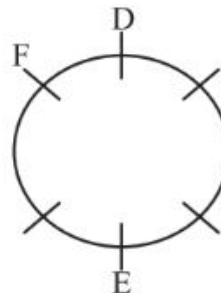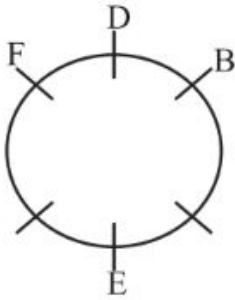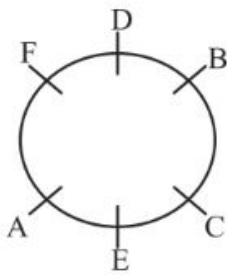Now by using condition 3 we get the final arrangement as

D sits between F and B.

Video Solution:

Q6. **Text Solution:**

Topic: Arrangements

Sub Topic: Linear Arrangements

Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row.

Case 1:

		Anil			Radha	

Case 2:

	Anil			Radha		

Case 3:

Anil			Radha			

Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu. Anil is seated to the left of Parul.

So, case 3 is invalid.

Case 1:

Jaggu	Anil	Parul	Radha

Case 2:

Jaggu	Anil	Parul	Radha	

Nisha is seated to the immediate left of Ekta. So, case 1 is invalid.

Shyam is seated to the left of Manju.

Case 2 : This is the final arrangement.

Jaggu	Anil	Shyam	Parul	Manju	Radha	Nisha	Ekta

3 people are seated to the left of Parul.

The answer is option C.

Video Solution:

Q7. **Text Solution:**

Topic: Arrangements

Sub Topic: Linear Arrangements

Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row.

Case 1:

		Anil			Radha	

Case 2:

	Anil			Radha		

Case 3:

Anil			Radha			

Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu. Anil is seated to the left of Parul.

So, case 3 is invalid.

Case 1:

Jaggu	Anil		Parul		Radha	

Case 2:

Jaggu	Anil		Parul		Radha	

Nisha is seated to the immediate left of Ekta. So, case 1 is invalid.

Shyam is seated to the left of Manju.

Case 2 : This is the final arrangement.

Jaggu	Anil	Shyam	Parul	Manju	Radha	Nisha	Ekta

The number of people seated between Radha and Ekta is the same as the number of people seated between Anil and Parul.

The answer is option B.

Video Solution:

Q8. Text Solution:

Topic: Arrangements

Sub Topic: Linear Arrangements

Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row.

Case 1:

	Anil			Radha	

Case 2:

Anil			Radha		

Case 3:

Anil			Radha		

Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu. Anil is seated to the left of Parul.

So, case 3 is invalid.

Case 1:

Jaggu	Anil	Parul	Radha	

Case 2:

Jaggu	Anil	Parul	Radha	

Nisha is seated to the immediate left of Ekta. So, case 1 is invalid.

Shyam is seated to the left of Manju.

Case 2 : This is the final arrangement.

Jaggu	Anil	Shyam	Parul	Manju	Radha	Nisha	Ekta

The number of people seated to the left of Shyam is the same as the number of people seated to the right of Radha.

The answer is option C.

Video Solution:

Q9. Text Solution:

Topic: Arrangements

Sub Topic: Linear Arrangements

Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row.

Case 1:

	Anil			Radha	

Case 2:

Anil			Radha		

Case 3:

Anil			Radha		

Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu. Anil is seated to the left of Parul.

So, case 3 is invalid.

Case 1:

Jaggu	Anil	Parul	Radha	

Case 2:

Jaggu	Anil	Parul	Radha	

Nisha is seated to the immediate left of Ekta. So, case 1 is invalid.

Shyam is seated to the left of Manju.

Case 2 : This is the final arrangement.

Jaggu	Anil	Shyam	Parul	Manju	Radha	Nisha	Ekta

All the given statements are true.

The answer is option D.

Video Solution:

Q10. Text Solution:

Topic: Arrangements

Sub Topic: Linear Arrangements

Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row.

Case 1:

	Anil			Radha	

Case 2:

	Anil		Radha		

Case 3:

Anil			Radha		

Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu. Anil is seated to the left of Parul.

So, case 3 is invalid.

Case 1:

Jaggu	Anil		Parul		Radha		

Case 2:

Jaggu	Anil		Parul		Radha		

Nisha is seated to the immediate left of Ekta. So, case 1 is invalid.

Shyam is seated to the left of Manju.

Case 2 : This is the final arrangement.

Jaggu	Anil	Shyam	Parul	Manju	Radha	Nisha	Ekta

Nisha is seated third to the right of Parul.

The answer is option B.

Video Solution:

Q11. **Text Solution:**

There are seven people and 3 cities. And we are given that at least two people belong to each city. So the only possible combination for cities is that 2 people from 2 cities each and 3 people from the remaining 1 city.

I belong to Calcutta with J which means J also belongs to Calcuta.

Now, E belongs to a city only with D and H but is not from Ahmedabad that means these three people belong to Bangalore (Since Calcutta is already visited by 2 persons).

Name	City	Colour
D	Bangalore	
E	Bangalore	Black
F		
G		
H	Bangalore	
I	Calcutta	Blue (X)
J	Calcutta	

Now, the remaining two people, F and G must belong to Ahmedabad (Since at least two people belong to the same city).

From the given data points: H likes Orange. F belongs to Ahmedabad only with the person who likes White that means G likes white.

The one who likes Pink does not belong to either Bangalore or Calcutta that means this person should be F.

Name	City	Colour
D	Bangalore	Green
E	Bangalore	Black
F	Ahmedabad	Pink
G	Ahmedabad	White
H	Bangalore	Orange
I	Calcutta	Blue (X)
J	Calcutta	

Now, I does not like blue that means he likes Yellow and the remaining person 'J' likes Blue.

So the final arrangement looks like this:

Name	City	Colour
D	Bangalore	Green
E	Bangalore	Black
F	Ahmedabad	Pink
G	Ahmedabad	White
H	Bangalore	Orange
I	Calcutta	Yellow
J	Calcutta	Blue

Video Solution:

Q12. **Text Solution:**

The Final arrangement looks like this:

Name	City	Colour
D	Bangalore	Green
E	Bangalore	Black
F	Ahmedabad	Pink
G	Ahmedabad	White
H	Bangalore	Orange
I	Calcutta	Yellow
J	Calcutta	Blue

Pairs in option A, B and D belong to same cities. I and H do not belong to same city hence this pair is Odd-One.

Video Solution:

Q13. **Text Solution:**

The Final arrangement looks like this:

Name	City	Colour
D	Bangalore	Green
E	Bangalore	Black
F	Ahmedabad	Pink
G	Ahmedabad	White
H	Bangalore	Orange
I	Calcutta	Yellow
J	Calcutta	Blue

Video Solution:

Q14. **Text Solution:**

The Final arrangement looks like this:

Name	City	Colour
D	Bangalore	Green
E	Bangalore	Black
F	Ahmedabad	Pink
G	Ahmedabad	White
H	Bangalore	Orange
I	Calcutta	Yellow
J	Calcutta	Blue

From the table we can see all the given combinations are incorrect. Hence answer should be none of these.

Video Solution:

Q15. **Text Solution:**

The Final arrangement looks like this:

Name	City	Colour
D	Bangalore	Green
E	Bangalore	Black
F	Ahmedabad	Pink
G	Ahmedabad	White
H	Bangalore	Orange
I	Calcutta	Yellow
J	Calcutta	Blue

Video Solution:

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