

Mock Test 3

LOGICAL REASONING & DATA INTERPRETATION PRACTICE PAPER LRDI Set-3

Set 1: Friends Selection for a Camping Trip

Paragraph:

Amar wants to go on a camping trip with exactly five of his friends. He has to select five friends who will accompany him out of eight friends – A through H. Of these eight friends, A, B, F and G are girls and the remaining are boys. Further, only C, E and F know how to pitch a tent. When selecting the five friends, Amar wants to select at least two friends who know how to pitch a tent. Further, it is also known that:

1. If A is selected, E cannot be selected.
2. If B is selected, both C and D must be selected.
3. G cannot be selected unless F is selected.
4. C can be selected if and only if G is selected.
5. H cannot be selected unless both B and F are selected.

Q1:

What is the maximum number of girls that Amar can select?

Options:

- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
-

Q2:

How many of the eight friends will definitely be selected?

Options:

- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
-

Q3:

In how many ways can Amar select the five friends?

Options:

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

Q4:

Who among the following will definitely not be selected?

Options:

- (a) A

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- (b) E
(c) H
(d) More than one of the Above

Set 2: Heartbreak Hotel Room and Revenue Data

Paragraph:

A hotel in Prem Nagar, Heartbreak Hotel, has five floors, numbered 1 to 5, and five different types of rooms – Single, Double, Executive, Royal and Select. In each floor of the hotel, all the rooms are of the same type and, for each type of room, all the rooms are in a single floor. It is also known that the number of Executive rooms is at least double the number of Royal rooms in the hotel. On a particular day, a certain number of rooms were occupied. The bar graphs given below present the following information:

1. Occupancy Percentage for the given day: Calculated as the number of rooms occupied as a percentage of the total number of rooms in each floor.
2. The Maximum Total Revenue (in ₹ '000): The revenue that could have been earned by the hotel for each floor in a day, had all the rooms in the hotel been occupied.
3. The Rate Per Day (in ₹) for each type of room in the hotel.



Q5:

What is the total number of rooms in the hotel?

Options:

- (a) 120
(b) 180
(c) 150
(d) 135

Q6:

If 80% of the Double Rooms, 20% of the Single Rooms and 100% of all the other types of rooms were occupied on a particular day, what will be the total revenue (in ₹) earned by the hotel on that day?

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Q7:

On the given day, how many Royal rooms were occupied?

Q8:

On which floor of the hotel are the Double rooms in?

Options:

- (a) 1
 - (b) 2
 - (c) 3
 - (d) 5
-

Q9:

On the given day, how many Executive rooms were unoccupied?

Set 3: City Travel and Transport Network

Paragraph:

Seven cities – Kolkata, Delhi, Mumbai, Chennai, Hyderabad, Nagpur and Raipur – are connected by three modes of transport (Rail, Road and Air) by one-way or two-way connections.

- Two-way connections (Rail, Road, Air): Kolkata–Delhi, Chennai–Delhi
- Two-way (Air, Rail): Nagpur–Mumbai
- One-way Rail: Chennai→Hyderabad, Nagpur→Delhi, Hyderabad→Mumbai
- One-way Road: Raipur→Nagpur, Hyderabad→Chennai, Delhi→Nagpur, Mumbai→Hyderabad
- One-way Air: Nagpur→Raipur, Kolkata→Hyderabad, Hyderabad→Mumbai, Chennai→Raipur
- Two-way Rail: Raipur↔Kolkata

Q10:

If Nandini wants to travel from Mumbai to Raipur by passing through a minimum number of cities, what is the number of cities that she has to pass through (excluding the origin and the destination)?

Options:

- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
-

Q11:

If Varun wants to travel from Chennai to Raipur via Kolkata by using each mode of transport at least once and at most twice, what is the minimum number of cities he has to pass through (excluding the origin and the destination)?

Options:

- (a) 4
- (b) 3

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- (c) 2
 - (d) 1
-

Q12:

If Subramanayam wants to travel from Hyderabad to Raipur using only air transport, what is the minimum number of cities that he has to pass through (excluding the origin and the destination)?

Options:

- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
-

Q13:

If Ravi wants to travel from Hyderabad to Kolkata using only one mode of transport, which mode of transport must he choose such that he passes through the least number of cities?

Options:

- (a) Air
 - (b) Rail
 - (c) Road
 - (d) Either rail or road
-

Q14:

If Ms. Samantha wants to travel from Kolkata to Chennai using only Road transport, what is the minimum number of cities that he has to pass through (excluding the origin and the destination)?

Set 4: Circular Seating and Dish Selection Puzzle

Paragraph:

Eight persons – Ajay, Chand, Dev, Giri, Hari, Kiran, Lalit, and Manan – were sitting in eight equally spaced chairs around a circular table in a restaurant. Each of the eight persons ordered and paid for exactly one dish among Poutine, Marzipan, Ankimo, Arepas, and Rendang such that each dish was ordered by at least one person. The five dishes were priced ₹250, ₹450, ₹650, ₹750, and ₹850, not necessarily in the same order. Further, it is known that:

1. No two persons who ordered the same dish were sitting next to each other, and the prices of the dishes ordered by any two persons sitting adjacent to each other differed by not more than ₹200.
 2. Hari, who ordered Ankimo, was sitting two places to the left of a person who paid ₹250, while Dev, who ordered Marzipan, paid ₹100 more than what Chand paid.
 3. Kiran, who paid more than ₹650, was the only person who ordered Poutine, while Giri was sitting two places to the left of Ajay.
 4. Rendang is priced ₹450 but it was ordered neither by Giri nor by Manan.
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Q15:

What did the person sitting to the right of Giri order?

Options:

- (a) Poutine

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- (b) Ankimo
 - (c) Arepas
 - (d) Cannot be determined
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Q16:

Who among the following is sitting opposite a person who ordered Arepas?

Options:

- (a) Giri
 - (b) Dev
 - (c) Chand
 - (d) Kiran
-

Q17:

Which of the following pairs of persons ordered the same dish but are not sitting opposite each other?

Options:

- (a) Manan, Kiran
 - (b) Chand, Hari
 - (c) Giri, Dev
 - (d) Ajay, Dev
-

Q18:

Who among the following ordered Marzipan?

Options:

- (a) Giri
 - (b) Chand
 - (c) Ajay
 - (d) Manan
-

Q19:

What is the total amount (in rupees) paid by all the eight persons combined?

Q20:

Which of the following pairs of persons ordered the same dish and are sitting opposite to each other?

Options:

- (a) Ajay, Dev
- (b) Giri, Dev
- (c) Ajay, Lalit
- (d) Hari, Chand

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Answer Key

1. (c) 3
2. (d) 4
3. (c) 3
4. (c) H
5. (d) 135
6. 958000
7. 3
8. (c) 3
9. 9
10. (a) 1
11. (c) 2
12. (b) 2
13. (c) Road
14. 1
15. (b) Ankimo
16. (d) Kiran
17. (c) Giri, Dev
18. (a) Giri
19. 4800
20. (d) Hari, Chand