Mock Test 2

LOGICAL REASONING & DATA INTERPRETATION PRACTICE PAPER LRDI Set-2

Passage for Questions 1–6:
On an overcast Sunday morning, a young man robbed a store and escaped. Rajiv, the police officer assigned for the case, arrived at the crime scene and, upon investigating, found that the robber had brown hair, was of brown complexion, had a mole on his right cheek and wore a pink coloured eye patch over his left eye. Rajiv returned back to the police headquarters and tried searching the database for the person matching the description provided above. However, the database had only partial information about the persons. Based on the partial information from the database, Rajiv deduced that the robber must be one of the seven persons among Amit, Lalit, Rishi, Bill, Gourav, Hari and Lokesh.
Among the seven persons:

- Three persons have black hair and four persons have brown hair
- Four persons are of brown complexion and three persons are of olive complexion
- Three persons have a mole on their right cheeks, while four persons have a mole on their left cheeks
- Four persons wear an eye patch over their left eye and three persons wear an eye patch over their right eye
- Five persons wear a pink eye patch and two persons wear a black eye patch

Additional information from the database:

- For no two persons are all the above-mentioned characteristics the same.
- Rishi, who has the same complexion as Bill, wears his eye patch on a different eye as compared to Bill.
- Lalit has black hair, has a mole on his left cheek and wears an eye patch over his right eye.
- There are exactly two persons who have black hair and a mole on their right cheek, and exactly three persons who wear pink eye patch and have brown hair.
- There are exactly three persons who have a mole on their right cheek and wear an eye patch over their left eye.
- There are exactly three persons who wear an eye patch over their right eye and have brown complexion.
- Bill wears a black eye patch, while Lokesh is of brown complexion.
- Amit has a mole on his left cheek, while Gaurav does not wear a black eye patch.

Question 1/20:
Who among the following wears a black eye patch?

- (a) Lokesh
- (b) Hari
- (c) Amit
- (d) Lalit

Question 2/20:
Who among the seven persons is the robber?

- (a) Lokesh
- (b) Rishi
- (c) Amit

- (d) Hari

Question 3/20:
Who among the following is of olive complexion and wears an eye patch over his left eye?

- (a) Amit
- (b) Lokesh
- (c) Hari
- (d) More than one of the above

Question 4/20:
How many people wear a pink eye patch and have a mole on their right cheek?

- (a) 0
- (b) 1
- (c) 2
- (d) More than 2

Question 5/20:
Who among the following is of olive complexion and has a mole on his right cheek?

- (a) Gaurav
- (b) Amit
- (c) Rishi
- (d) More than one of the above

Question 6/20:
Rajiv received information that a person with Brown hair, a mole on his left cheek and an eye patch over his right eye committed a different robbery. How many of the seven persons match the description of this robber?

- (a) 0
- (b) 1
- (c) 2
- (d) More than 2

Passage for Questions 7–12:
A group of professors gave a few seminars at a conference, which was conducted across two days, Day 1 and Day 2. Each professor gave not more than one seminar on each of Robotics and Nanotechnology. Further, each professor gave not more than one seminar on each of Day 1 or Day 2. Each seminar was given by exactly one professor. The following information is known about the seminars given by the professors:

- The number of professors who gave a seminar on Robotics on Day 1 is twice the number of professors who gave a seminar on Nanotechnology on Day 1.
- The number of seminars given on Robotics is eight more than the number of seminars given on Nanotechnology.
- The number of professors who gave a seminar on Day 2 is six more than the number of professors who gave a seminar on Day 1.

- The total number of seminars given by the professors who gave a seminar on Robotics is twenty more than the number of seminars on Nanotechnology on Day 2.
- The number of seminars given on Robotics on Day 1 is the same as the number of seminars given on Robotics on Day 2.
- Exactly four professors gave a seminar on Robotics on Day 1 and on Nanotechnology on Day 2.

Question 7/20:
How many seminars on Robotics were given on Day 2?

- (a) 11
- (b) 12
- (c) 13
- (d) 14

Question 8/20:
What is the total number of seminars given by the professors on Day 1?

- (a) 16
- (b) 18
- (c) 21
- (d) 24

Question 9/20:
How many seminars were given, in all, by the professors during the two days?

Question 10/20:
How many professors gave two seminars in the conference?

- (a) 4
- (b) 5
- (c) 6
- (d) 7

Question 11/20:
How many professors gave a seminar on Nanotechnology on Day 1 and a seminar on Robotics on Day 2?

- (a) 1
- (b) 2
- (c) 4
- (d) 5

Question 12/20:
On each day, all the seminars started at exactly 10:00 am and each seminar was held in a different seminar hall. If any seminar hall that was booked was booked for both the days of the conference, what is the minimum number of seminar halls that would have been booked for conducting all the seminars during the conference?

Mock Test 2

Passage for Questions 13–16:
The sales manager of a retail chain was evaluating the performance of eight outlets of the chain across the country. She collected information regarding the following parameters for each of these ten outlets, over a period of thirty days:

- Number of Footfalls: The total number of customers that visited the store during these thirty days. No customer visited the store more than once during the period and no customer who visited the store made more than one purchase.
- Average Transaction Amount: The average amount of each purchase. Further, each purchase is considered to have been made by exactly one customer.
- Average Serving Time: The average time (in minutes) spent by a salesperson in serving a customer that visited a store, irrespective of whether the customer made a purchase or not.
- Number of Salespersons present in each store.
- Total Sales and Total Profit: The sales from the store are only through purchases made by the customers.

Question 13/20:
If the average time spent in serving customers who do not make a purchase is the same as that spent in serving those who make a purchase, then how many hours in a day, on an average, did each salesperson in Store 8 spend in serving only those customers that made a purchase in the store?

- (a) 1 hour 27 minutes
- (b) 1 hour 33 minutes
- (c) 1 hour 45 minutes
- (d) 1 hour 55 minutes

Question 14/20:
For which store was the number of customers who made a purchase as a percentage of the number of footfalls the highest?

- (a) Store 6
- (b) Store 5
- (c) Store 3
- (d) Store 2

Question 15/20:
What is total profit from all of the eight stores combined?

Question 16/20:
If the sales manager wants to hire more salespersons for the store in which each salesperson, on an average, spent the maximum time per day serving the customers that visited the store, for which store should she hire the salespersons?

- (a) Store 2
- (b) Store 4
- (c) Store 5
- (d) Store 6

Passage for Questions 17–20:
An ancient tribe living in a Central African forest uses apples, oranges and bananas as their currency for all their

transactions. Each apple is worth a certain number of oranges and each orange is worth a certain number of bananas. Any member of the tribe can exchange any number of the apples, oranges or bananas that he/she has with an equivalent number of other fruits. The three fruits are always traded whole, i.e., they are never cut into parts for the purpose of exchanging. The tribe does not have access to any other types of fruits. On a particular day, Xio'tole, a member of this tribe, had with him four apples, three oranges and five bananas. He first exchanged one apple with one orange and three bananas. Later, he exchanged three oranges and one banana with two apples.

Question 17/20:
Xigumbe, a member of this tribe, had with him 6 apples, 11 oranges and 9 bananas. What is the total number of fruits that he can exchange in order to be left with an equal number of apples, oranges and bananas?

- (a) 3
- (b) 4
- (c) 5
- (d) More than one of the above

Question 18/20:
This morning, Xi'jaee, the brother of Xio'tole, exchanged exactly one fruit and ended up with an equal number of apples, oranges and bananas. What is the minimum total number of fruits that he could have had before he exchanged the fruit?

Question 19/20:
If, immediately after Xio'tole exchanged the fruits, he purchased a boat, the maximum possible price of the boat is equivalent to:

- (a) 3 apples, 3 oranges, 8 bananas
- (b) 5 apples, 2 oranges, 5 bananas
- (c) 1 apple, 9 oranges, 4 bananas
- (d) 4 apples, 2 oranges, 10 bananas

Question 20/20:
De'yshan, a member of this tribe, had with her at least one fruit of each type. First, she exchanged two oranges and then she exchanged two apples. After this, she exchanged a certain number of bananas for exactly one apple and she ended up with an equal number of apples, oranges and bananas. What is the minimum number of fruits that she had with her after she exchanged the fruits?

Mock Test 2

Answer Key

1. **(B) Hari**
2. **(A) Lokesh**
3. **(D) More than one of the above**
4. **(B) 1**
5. **(D) More than one of the above**
6. **(C) 2**
7. **(B) 12**
8. **(A) 16**
9. **34 seminars**
10. **(C) 6**
11. **(B) 2**
12. **22 seminar halls**
13. **(A) 1 hour 27 minutes**
14. **(C) Store 3**
15. **₹3,23,000**
16. **(D) Store 6**
17. **(C) 5**
18. **6 fruits**
19. **(D) 4 apples, 2 oranges, 10 bananas**
20. **(A) 6 fruits**