

LRDI – Mixed Class

Five locks – L1, L2, L3, L4 and L5 – have five distinct keys – K1, K2, K3, K4 and K5 – not necessarily in the same order. A lock can be unlocked if and only if the correct key is used. Five people – Amy, Biny, Chiny, Dina and Finn – try to unlock the locks by using different lock-key combinations. A person is awarded 2 points for each lock that he/she unlocks. The five people end up with distinct scores at the end of the exercise. The table given below shows the lock-key combinations tried by the five participants.

	L1	L2	L3	L4	L5
Amy	K5	K4	K3	K2	K1
Biny	K4	K2	K3	K5	K1
Chiny	K1	K3	K4	K5	K2
Dina	K5	K4	K3	K1	K2
Finn	K4	K2	K3	K1	K5

Q. 1.

What is the least possible score of Dina?

What is the minimum possible absolute difference between the scores of Amy and Dina?

If Finn scores less than Biny, then what is the sum of the scores of Amy and Dina?

The score of the person whose score can uniquely be determined is

Let P, Q, R, S, T and U be the psuedo-names of Amit, Bimal, Charlie, Dinesh, Eshan and Fandoo (not necessarily in this particular order).

I. Eshan said that P is Amit, Q is Bimal, R is Charlie, and T is Fandoo.

II. Bimal said that Q is Dinesh, S isCharlie, T is Amit and U is Fandoo.

III. Charlie said that P is Eshan, R is Bimal, S is Amit and T is Fandoo.

IV. Amit said that Q is Dinesh, R is Charlie, T is Bernal and U is Eshan.

V. Amit, Bimal, Charlie and Eshan were able to correctly map exactly two persons with their right pseudo-names.

1) P is

Mention '0' if your answer is CBD.

2) Who Is Fandoo?

Mention '0' if your answer is CBD.

3) Who is dinesh?

Mention '0' if your answer is CBD.

A consumer electronics giant launched six flagship mobile handset models – S6, P9, I4, K7, M8 and Z5 in the span of eight years. No two handset models were launched within a period of 18 months. The launch dates of the handset models are given below:

S6	P9	I4	K7	M8	Z5
31 st January	20 th February	1 st April	19 th June	20 th September	5 th November

Q1. Which mobile handset model was the sixth to be launched?

- a. S6
- b. P9
- c. K7
- d. Cannot be determined

Q2. Which mobile handset model was the second to be launched?

- a. K7
- b. M8
- c. Z5
- d. Cannot be determined

Q3. Which mobile handset model was the fifth to be launched?

- a. P9
- b. K7
- c. Z5
- d. Cannot be determined

Q4. Which handset model/s was/were launched between K7 and I4?

- a. Z5
- b. M8
- c. Both Z5 and M8
- d. Neither Z5 nor M8

There are 10 cities– City A through City J – in two states, Upper Pradesh and South Nadu, such that exactly five cities are in Upper Pradesh and five cities are in South Nadu. Each city in each of the two states is connected to exactly three cities in the other state – one by Air, one by Sea and the other by Road. All routes (Air, Sea or Road) are two-way routes. No city in any state is connected to any other city in any way other than that mentioned above.

The following information is known about the routes connecting the ten cities:

- 1. City B has a Road route to City I, which, in turn, has an Air route to City D.
- 2. City F has a Sea route to J but it is not connected to City C, which is not in the same state as City F is in.
- 3. City A and City D are in the same state and from each of these two cities, there is no route to reach either City E or City J, both of which are present in a different state than the one in which City A is.
- 4. City B, which belongs to Upper Pradesh, is not connected to City C, which belongs to a different state.

Q1. Which of the following pairs of cities are connected by a Road route?

- a) City F, City G b) City E, City F c) City A, City I d) City F, City I

Q2. For which of the following pairs of cities is the number of ways of travelling

between them the maximum, if exactly one city is visited in between?

- a) City I, City J b) City C, City D c) City A, City F d) City B, City F

Q3. Which of the following sets of cities definitely belong to Upper Pradesh?

- a) A, C, D, H b) B, C, D, E c) A, H, D, G d) A, B, D, F

Q4. If City G and City F are connected, City H has a Sea route to which of the following cities?

- a) City C b) City B c) City D d) City E