Truth & Lie Class 3

SET-1

Each of the four friends - Akshaya, Bhavya, Chaitanya & Divya decided to attend a party in a different attire : Churidar, Sari, Salwar kameez & Gagra choli, but not necessarily in that order. When one of their friends asked them about the dress which they wear, each one of them made three statements. Atleast one person among them is a truth teller(who always speaks the truth). At least one person among them is a liar(who always lie). Atleast one among them is an alternator(who alternates between the truth and lie). Their replies were as follows.

Akshaya:
• I wear a churidar.
• Bhavya wears sari.
• Divya doesn't wear Salwar Kameez.

Bhavya:
• I wear a Salwar Kameez.
• Chaitanya wears a Gagra choli.
• Akshaya doesn't wear Sari.

Chaitanya:
• I wear Sari.
• Akshaya wears Salwar Kameez.
• Bhavya wears churidar.

Divya:
• I doesn't wear Salwar Kameez.
• Chaitanya doesn't wear Sari.
• Akshaya wears Churidar.

Q1. If Chaitanya wears Gagra choli, then who wears the salwar kameez?
Q2. Who is definitely a truth teller?
Q3. The alternator wears?
Q4. Salwar kameez is worn by?
Mention'0', if your answer is CBD – For all questions.

SET-2

Each of the five cricket players P, Q, R, S and T belongs to a different cricket team among A, B, C, D & E, not necessarily in the same order. Among them at least two players are truth - tellers(who always speak the truth), out of the remaining players there is at least one liar(who always lie) and an alternator(who alternates between truth and lie). The players will belong to these three categories only(Truth teller/Liar/Alternator). They played a series of matches, when asked them 'who won the tournament and to which team they belong?', they replied as follows.

P : My team won the tournament.
I do not belong to team C.
Neither team B nor team E won the tournament.

Q : My team is E.
Team D did not win the tournament.
Either team A or team B won the tournament.

R : Q does not belong to team A.
P belongs to either team C or team A.
None of the teams A, B & C won the tournament.

S : I am in team B.
We lost the tournament.
P's team won the tournament.

T : Either R's team or S's team won the tournament.
I do not belong to team D.
Team A won the tournament.

Q1. Who belongs to team E?
a. R   b. T
c. Q   d. Cannot be determined

Q2. Who is a liar?
a. The player belongs to team A
b. The player belongs to team C.
c. The player belongs to team B.
d. The players belongs to team D.

Q3. Which among the following statements is true?
a. R belongs to team B.   b. P and T are truth tellers.
c. R and Q are alternators.   d. S is a truth teller.

Q4. Who won the tournament?
a. Team B   b. T
c. Team D   d. Q

A, B, C, D & E are five boys that live in G+10 storeyed building. Each boy lives on a different floor and none of them lives on the ground floor. All of them enter the lift on the ground floor and each one presses the buttons for exactly 2 floors such that all 10 buttons(floors 1- 10) are pressed. None of them presses the button for his own floor. The following information is also know:

1. C lives above A but below D, and E lives below D but above B.
2. There are exactly 2 floors between the floors of B and A and exactly one floor between the floors of C and E where none of the five stay.
3. The floor numbers pressed by B are perfect square numbers.
4. A pressed the button for C's floor, B pressed the button for D's floor, C pressed the button for E's floor, D pressed the button for A's floor and E pressed the button for B's floor.
5. The difference between the floor numbers pressed by E is the floor number of C.
6. The difference between the floor numbers pressed by D is a perfect square number.
7. A pressed consecutive floor numbers.
8. B pressed the buttons for floors that are above the floor where he lives.

Q1. Who lives on a floor which is in between the floors whose buttons he pressed?
Q2. Who lives on the 6th floor?
Q3. Who pressed the button for the first floor?
Q4. Who lives on the 4th floor?

SET-4

Six persons including Emanuel stay in a colony in adjacent houses, having different numbers 1 to 6. Each of the houses is of a different colour. One of the houses is white. Each of the person takes a different type of drink in the morning and another type of drink in the evening. One of the morning drinks is tea and one of the evening drinks is beer.

I. The person whose house number is three, the person whose name is deepika, the person whose house is red in colour, the person who takes milk as the morning drink, the person who takes rum as the evening drink and the person whose house number is two are all distinct.

II. The person whose house number is fives lives in the pink colored house and takes wine as the morning drink while the person who takes rum or cocktail as the evening drink takes neither coffee nor wine as the morning drink.

III. The person who lives in the brown colored house takes coffee in the the morning but his house number is neither 3 nor 6. Anil takes brandy in the evening. Farhan is in house number one and does not take milk as the morning drink.

IV. Chaitanya's house number is six and he drinks rum in the evening. The person who takes gin as the evening drink stays in the yellow colored house and is neither Anil nor Bharat.

V. The person who lives in the green colored house takes boost as the morning drink and the person whose house number is three drinks whiskey in the evening and horlicks in the morning.

Q1. Who takes horlicks as the morning drink?

Q2. Who is staying in house number two?

Q3. Which of the following is the correct combination of morning and evening drinks taken by a person?

a. Tea and beer   b. Milk and gin   c. Tea and Rum   d. Wine and Brandy