



**SNS College of Technology(Autonomous)
Coimbatore-35
Academic Year 2023 – 2024 (Even)**



UNIT 1 QUANTITATIVE ABILITY III

T9: Logical Connectives

Topic

If, then - Statements in the form of [If A, then B] or [A if B]

Only if/when - Statements in the form of [Only If A, then B], or [A, only if B].

If and only if - Sentences with a union of sentences with connectives If and only if.

Unless - Statements in the form of [Unless A, B] or [A, unless B]

Either or - Statements in the form of [either A or B]

Examine the following statements:

1. I listen to the radio only if I am bored.
2. I am never bored when I have my sister's company.
3. Whenever I go for shopping I take my sister along.

Which one of the following conclusions can be drawn from the above statements?

- A. If I am bored I listen to the radio.
- B. If I am bored, I seek my sister's company.
- C. If I am not with my sister, then I'll listen to the radio.
- D. If I am not bored I do not listen to the radio.

Statements: Some actors are singers. All the singers are dancers.

Conclusions:

•Some actors are dancers.

- A. Only (1) conclusion follows
- B. Only (2) conclusion follows
- C. Either (1) or (2) follows
- D. Neither (1) nor (2) follows
- E. Both (1) and (2) follow

Some mangoes are yellow. Some tixo are mangoes.

Conclusions:

- Some mangoes are green.
- Tixo is a yellow.

- A. Only (1) conclusion follows
- B. Only (2) conclusion follows
- C. Either (1) or (2) follows
- D. Neither (1) nor (2) follows
- E. Both (1) and (2) follow

Each problem consists of three statements. Based on the first two statements, the third statement may be true, false, or uncertain.

- Tanya is older than Eric.
- Cliff is older than Tanya.
- Eric is older than Cliff.

If the first two statements are true, the third statement is

- A. true
- B. false
- C. uncertain
- D. No Answer

One morning after sunrise, Mahesh was standing facing a pole. The shadow of the pole fell exactly to his right. To which direction was he facing?

Solution:

The sun rises in the East (E) in the morning.

As the shadow of Mahesh falls to his right.

So he must be facing South.

Hence, the answer is the south

M is in the East of N, which is in the North of S. If P is in the South of S, then in which direction of M, is P?

Solution:

Let us understand through the diagram , which will clear the question more.

So, P is south-west of M.

