

IMSc CS Sem-5 Examination

Critical Thinking

December-2024

Time : 3-00 Hours]

[Max. Marks : 35

Q-1 Answer the following in 2-3 sentences: (ANY 5) 10

- 1) What is an argument? Explain with a suitable example.
- 2) Differentiate between Deductive Argument and Inductive argument.
- 3) Name a Critical thinking argument that works the best for conducting a survey. Add one example to the argument named.
- 4) Give any two examples of Deductive Arguments with justification.
- 5) Give any two examples of Modus Ponens.
- 6) Give any two examples of Modus Tollens.
- 7) Explain the meaning of a claim in Critical Thinking skills.

Q-2 Attempt the following : 12

1. What is Critical thinking? List and explain its benefits that play the main role in shaping our personality.
2. Give a detailed view on the application of Critical Thinking Skills in the area of Computer Science.

OR

Attempt the following :

1. Explain Claims and Arguments by differentiating them from each other and also provide examples to suffice your explanation.
2. State names of any 3 Western or Indian Philosophers/Thinkers and explain their contribution/s in detail.

Q-3 Attempt the following by stating whether the following statements are True or False : 13

1. All bachelors are unmarried men.
2. The earth is flat.
3. $2-3 = -1$
4. All birds can fly.
5. All even numbers are divisible by 2.
6. A strong argument must have true Premises.
7. Does everyone in the world speak English?
8. If P equals to R and if R equals to Q, then it is relevant that P equals to R.
9. All strong and true premises can have a false conclusion.
10. If a square is a rectangle, then all rectangles are squares.
11. If no one knows what caused an event, it means the event has no cause.
12. If a coin flip results in heads five times in a row, the probability of flipping tails next is close to 100%.
13. If a solution to a problem is elegant in appearance, it must also be correct.