

END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY-JUNE 2026

Paper Code: BCA-232

Subject: Introduction to Logic and Critical Thinking

Time: 3 Hours

Maximum Marks: 60

Note: Attempt five questions in all including Q. No.1 which is compulsory. Select one question from each unit.

Q1 Attempt **any four**:-

(4x5=20)

- (a) Discuss the relationship between reasoning, logic, and language.
- (b) Write a case study on the role of critical thinking in identifying fake news during the COVID-19 pandemic.
- (c) Differentiate between valid and invalid arguments with suitable examples.
- (d) Define logic and explain its importance in reasoning and decision-making.
- (e) Analyze the impact of emotions and biases on critical thinking.
- (f) What are the characteristics of a critical thinker?
- (g) Differentiate between formal fallacies and informal fallacies.

UNIT-I

Q2 What is critical thinking? Discuss its components and role in academic and professional life. (10)

- Q3 (a) Differentiate between facts and opinions with suitable examples. (5)
(b) Differentiate between logical thinking and critical thinking with suitable examples. (5)

UNIT-II

Q4 What is an argument? Explain its components with examples. Discuss few types of arguments. (10)

- Q5 (a) Differentiate between deductive and inductive arguments. (5)
(b) Explain how arguments are evaluated in logical reasoning. (5)

UNIT-III

Q6 Explain the principles of critical thinking and discuss the characteristics of critical and uncritical thinkers with suitable examples. (10)

- Q7 (a) Discuss the importance of precision and relevance in evaluating information. (5)
(b) Explain the relationship between logical reasoning and critical thinking. Provide an example to justify your answer. (5)

UNIT-IV

- Q8 (a) What is a hasty generalization fallacy? Explain with examples. (5)
(b) Discuss ethical considerations involved in Information Technology decision-making. (5)

Q9 Define fallacies. Explain common fallacies in reasoning with suitable examples. (10)