

TILAK MAHARASHTRA VIDYAPEETH, PUNE
B.A. LL.B.(ACADEMIC LAW)
(FIVE YEARS SEMESTER PATTERN) CREDIT SYSTEM
EXAMINATION: MAY -2025
FOURTH SEMESTER
Sub.: Logic & Scientific Method (BLW - 4003)

Date :09/05/2025

Total Marks : 60

Time: 2.00 pm to 4.30 pm

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q. 1. Define the following terms (10)

1) (Any Four)

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|------------------------------|-----------------------------|------------|
| 1. Logic | 2. Proposition and Sentence | 3. Paradox |
| 4. Negative proposition
P | ~ 5. Simple proposition | 6. Dilemma |

2) (Any one)

- | | |
|------------------------|----------------------------|
| 1. Contrary Opposition | 2. Sub-contrary Opposition |
|------------------------|----------------------------|

Q. 2. Answer the following in 2 to 3 lines: (10)

1) (Any Four)

- a) Discuss the use of logic in everyday reasoning.
- b) What is symbolism in logic? Provide examples.
- c) What is Fallacy?
- d) Explain: Hypothesis
- e) Explain : Inference with example

2) (Any one)

- a) Explain: $p \vee q$
- b) Explain: $p \cdot q$

Q. 3. 1) Write Short notes of the following. (Any One) (16)

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|--|---|
| a) Explain with 3 examples:
$\supset$ Horse Shoe and $\sim P$ | b) Explain with 3 examples:
$R = \{(x,y) \text{ and } a \in F$ |
|--|---|

2) (Any one)

- | | |
|-------------------------|--------------|
| a) Square of opposition | b) Syllogism |
|-------------------------|--------------|

Q. 4. Answer the Following Questions. (24)

1) (Any One)

- b) Ad Hominem Fallacy & Explain: Eduction
- c) Ignoratio Elenchi & Explain: Law of Identity

2) (Any One)

- a) Traditional Classification of Proposition
- b) Explain the scientific method and its steps.