

No. of Printed Pages : 5

MPYE-001

M. A. (PHILOSOPHY)

(MAPY)

Term-End Examination

June, 2026

MPYE-001 : LOGIC

Time : 3 Hours

Maximum Marks : 100

Note : (i) *Answer all the **five** questions.*

(ii) *All questions carry equal marks.*

(iii) *Answer to question no. 1 and 2
should be in about **500** words each.*

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1. What is inference ? Explain the two kinds of
inference with examples. 20

Or

What are the characteristics of dilemma ?

How can dilemma be avoided ? Explain. 20

2. What is a syllogism ? Discuss the various roles of constructing a categorical syllogism. 20

Or

Distinguish between classical and symbolic logic. What is the significance of symbols in logic ? 20

3. Answer any *two* of the following questions in about **250** words each : $2 \times 10 = 20$

(a) What does the square of opposition mean and signify ? Discuss.

(b) Distinguish between truth and validity with examples.

(c) Test the validity of the following using

Venn diagrams :

(i) AIO-2

(ii) EIO-3

(d) Construct proof of validity for the following :

1. (i) $(M \vee N) \rightarrow (P \wedge Q)$

(ii) $N \therefore P$

2. (i) $(A \rightarrow C) \wedge (B \rightarrow D)$

(ii) $K \rightarrow A$

(iii) $K \therefore CVD$

4. Answer any *four* of the following questions

in about **150** words each :

4×5=20

(a) What does denotation and connotation of a term mean ?

- (b) Explain negation with its truth table demonstration.
- (c) What are fallacies of ambiguity ? Explain briefly.
- (d) If p is true and q is false, then work out the values of the following statements :
- (i) $\neg p \rightarrow (q \Leftrightarrow p)$
- (ii) $(p \vee q) \rightarrow (\neg p \rightarrow q)$
- (e) Construct the truth table for modus tollens.
- (f) What is a conditional proof ? Illustrate.
5. Write short notes on any *five* of the following about **100** words each : 5×4=20
- (a) Enthymeme

- (b) Laws of thought
- (c) Biconditional
- (d) False cause
- (e) Tautology
- (f) Conjunction
- (g) Complex question
- (h) Mood and figure of a syllogism

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