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MPYE-001

M. A. (PHILOSOPHY)

(MAPY)

Term-End Examination

December, 2025

MPYE-001 : LOGIC

Time : 3 Hours

Maximum Marks : 100

Note : *Answer all the **five** questions. All questions carry equal marks. Answer to question nos. 1 and 2 should be in about **500** words each.*

1. Define Fallacy. Explain the fallacies of Ambiguity. 20

Or

Explain Formal Logic. Describe the rules of Inference in detail.

2. What are the characteristics of dilemma ?
What are the methods of avoiding
dilemma ? 20

Or

What are Propositions ? Describe the
significance of categorical propositions in
Aristotelian logic.

3. Answer any *two* of the following questions in
about **250** words each :
- (a) What is Mood and Figure ? Explain
with examples. 10
- (b) What is Square of Opposition ? Explain.
10
- (c) What is the difference between Truth
and Validity ? Explain with the help of
examples. 10
- (d) Construct formal proofs of validity for
the following : 10
- (i) $(x) [(Ax) \vee (Gx) \supset Sx]$
 $(\exists x) [Wx \wedge Ax] \therefore (\exists x) [Wx \wedge Sx]$
- (ii) $(M \vee N) \supset (P \wedge Q)$
 $N \therefore P \wedge Q$

4. Answer any *four* of the following questions in about **150** words each :

(a) Explain Biconditional function with truth table. 5

(b) Give an account of Quantification. 5

(c) Analyze the features of Traditional and Modern Logic. 5

(d) Analyze the difference between Incomplete and Compound Syllogism. 5

(e) What is Inductive Syllogism ? Explain with an example. 5

(f) Test the logical status of the following using Venn diagram : 5

All Dogs are Mammals.

All Dogs are Animals.

Therefore some Animals are Mammals.

5. Write short notes on any *five* of the following in about **100** words each :

(a) Argumentum and Baculum 4

(b) Petitio Principii 4

- (c) Antilogism 4
- (d) Tautology 4
- (e) Sorites 4
- (f) Enthymeme 4
- (g) Connotation of a term 4
- (h) Boolean analysis of categorical proposition 4

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