

No. of Printed Pages : 5

MPYE-001

M. A. (PHILOSOPHY)

(MAPY)

Term-End Examination

June, 2025

MPYE-001 : LOGIC

Time : 3 Hours

Maximum Marks : 100

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

(ii) *All questions carry equal marks.*

(iii) *Answers to question nos. 1 and 2
should be in about **500** words each.*

1. What are Propositions ? Discuss the
Aristotelian analysis of propositions. 20

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P. T. O.

Or

Describe the various kinds of propositions with truth tables. 20

2. Explain the concepts of mood and figure. What factors are responsible for determining mood and figure ? 20

Or

Give an account of Quantification. Explain the quantification rules. 20

3. Answer any **two** of the following questions in about **250** words each :

(a) What is syllogism ? What is the difference between Deductive and Inductive syllogism ? 10

(b) What are the characteristics of Dilemma ? What are the methods of avoiding Dilemma ? 10

(c) Draw the symbols for basic logic gates and explain their logical functions. 10

(d) Construct formal proofs of validity for the following arguments : 10

$$(i) \quad (B \vee N) \Rightarrow (K \wedge L)$$

$$\neg K$$

$$\neg M / \therefore \neg B \wedge \neg M$$

$$(ii) \quad (x)[Qx \Rightarrow Rx]$$

$$(\exists x)(Qx) / \therefore (\exists x)Rx$$

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

(a) Describe Disjunctive Syllogism with example. 5

(b) What are the features of Traditional Logic ? Explain. 5

(c) Explain the difference between reason and inference. 5

(d) What is the significance of terms in Aristotelian logic ? 5

(e) Test the validity of the following using Venn Diagram Method : 5

All musicians are creative people.

Some musicians are politicians.

Therefore some politicians are creative people.

(f) Distinguish between distributive law and commutative law. 5

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

(a) Square of opposition 4

(b) Sorites	4
(c) Conjunction	4
(d) Validity	4
(e) Truth	4
(f) Connotation	4
(g) Tautology	4
(h) Argumentum ad Baculum	4

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