

M.A. PHILOSOPHY (MAPY)

Term-End Examination

June, 2014

MPYE-001 : LOGIC

Time : 3 hours

Maximum Marks : 100

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- Note :** (i) *Answer all the five questions.*
(ii) *All the questions carry equal marks.*
(iii) *Answers to question no. 1 and 2 should be in about 500 words.*
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1. State and explain the rules and fallacies of Categorical Syllogism. 20

OR

Explain the nature and scope of Logic. How Symbolic Logic differs from Classical Logic ? 20

2. Explain Conjunction, Negation, Disjunction, Material Implication and Biconditional with truth - tables. 20

OR

What is Quantification theory ? State and explain the rules of Quantification with examples. 20

3. Answer any two of the following in about 250 words.

(a) Give an estimate of various classes of terms. 10

(b) Explain distribution of terms. 10

- (c) Determine the validity or invalidity of the following arguments by using Venn diagram. 10
- (i) IAI in IV figure
- (ii) EAE in IV figure
- (d) Explain Deduction and Induction. 10
4. Answer **any four** of the following in about **150** words.
- (a) What is Disjunctive Syllogisms ? Give an example. 5
- (b) What is Dilemma ? What are its kinds ? 5
- (c) Explain Tautology, Contradictory and Contingent sentence forms. 5
- (d) What do you understand by Figure and Mood ? 5
- (e) Distinguish between conversion and obversion. 5
- (f) Construct a formal proof of validity for the following argument. 5
- $Q \Rightarrow R$
 $\neg S \Rightarrow (T \Rightarrow U)$
 $S \vee (Q \vee T)$
 $\neg S \Rightarrow \therefore R \vee U$
5. Write short notes on **any five** of the following in about **100** words.
- (a) Fallacy of Equivocation 4
- (b) Logic gate 4
- (c) Commutation of terms 4
- (d) Fuzzy propositions 4
- (e) Argument forms 4
- (f) Copula 4
- (g) Multiply General Propositions 4
- (h) Truth function 4
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