No. of Printed Pages: 3

**MPYE-001** 

P.T.O.

Maximum Marks: 100

## M.A. PHILOSOPHY (MAPY)

## Term-End Examination December, 2014

01410

Time: 3 hours

**MPYE-001** 

MPYE-001: LOGIC

Not	e:		
(i)		Answer all <b>five</b> questions.	
(ii)		All questions carry equal marks.	
(iii)		Answers to questions no. 1 and 2 should be about 500 words each.	in
1.	(a)	kinds of Immediate Inferences with	20
		OR	
	(b)	Describe the rules of Quantification with examples.	20
2.	(a)	What is Dilemma? Explain the various kinds of Dilemma. What are the methods of avoiding Dilemma?	20
		OR	
	(b)	Define Argument. Explain its structure and nature.	20

Answer any two of the following in about 3. 250 words each. Explain Formal proof of validity. (a) Formal proof for the following argument:  $(H \lor I) \Rightarrow [J \land (K \land L)]$  $I/: J \wedge K$ 10 (b) Determine the validity or invalidity of the following argument using truth-table: *10*  $p \Rightarrow q$  $q \Rightarrow r$  $\therefore p \Rightarrow r$ (c) Explain Distribution of terms. 10 (d) Distinguish between Symbolic Logic and Classical Logic. What are the advantages of Symbolic Logic? 10 Answer any four of the following in about 4. 150 words each. What is meant by figure of a Syllogism? Explain four figures. 5 (b) Distinguish between Connotation and Denotation of terms. 5 (c) What is Multi-value Logic? 5 Explain Venn Diagram with an example. (d) 5 Describe the Square of Opposition. **(e)** 5 (f) Conjunction, Disjunction Explain and

Implication.

5

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

(a)	Mood	4
(b)	Fuzzy Propositions	4
(c)	Digital Logic	4
( <b>d</b> )	Enthymeme	4
( <b>e</b> )	Double-negation	4
<b>(f)</b>	Petitio principii	4
( <b>g</b> )	Reductio ad absurdum	4
(h)	Sentence forms	4