

M.A. PHILOSOPHY (MAPY) Term-End Examination December, 2016

MPYE-001 : LOGIC

Time : 3 hours

02709

Maximum Marks : 100

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 each.

 Explain Venn Diagram method of testing validity. 20 Test the validity or invalidity of the following argument using Venn Diagram.

"Some reformers are fanatics, so some idealists are fanatics, since all reformers are idealists".

OR

Write down the nine rules of inference and ten 20 rules of replacement. Construct a formal proof of validity for the following argument.

 $J\nu(\neg K\nu J)$ $K\nu(\neg J\nu K)$ $\therefore J \equiv K$

2. Give a detailed account of the development of 20 symbolic logic and its utility.

OR

Describe the structure of various syllogisms with **20** examples.

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P.T.O.

3.	Answer any two questions of the following in about 250 words each :				
	(a)	What is Dilemma ? What are the methods of avoiding Dilemma ?	10		
	(b)	Write a note on fallacies of Presumption.	10		
	(c)	Explain square of opposition.	10		
	(d)	Write a note on conditional proof and rule of strengthened conditional proof.	10		
٨	۸	or successful contained of the following in			
4.	abou	about 150 words each :			
	(a)	Give a description of Connotation and denotation.	5		
	(b)	How do you relate major, minor and middle terms in a syllogism ?	5		
	(c)	Write a note on traditional and symbolic logic.	5		
	(d)	EIO is valid and IEO is invalid in all the	5		
	(e)	Explain contraposition with an example	5		
	(f)	Distinguish between truth and validity.	5		
5.	Write short notes on any five of the following in				
	(a)	Multivalued logic			
	(a)	Obversion			
	(c)	Categorical Proposition	4		
	(d)	Figure and Mood	4		
	(e)	Tautology and Contradictory	4		
	(f)	Logic gate	4		
	(g)	Free variable	4		
	(h)	Multiply General Proposition.	4		