No. of Printed Pages : 2

MPYE-001

M.A. PHILOSOPHY (MAPY)

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Term-End Examination

December, 2018

MPYE-001 : LOGIC

Time : 3 hours

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- Answer all the five questions. Note : (i)
 - (ii) All questions carry equal marks.
 - (iii) Answers to questions no. 1 and 2 must be in about 500 words each.
- Use the method of antilogism and make a list of 20 1. valid and invalid moods.

OR

20 Use formal methods to construct proof for the following arguments :

- (a) $(H \Rightarrow I) \land (J \Rightarrow K)$
- (b) $(I \lor K) \Rightarrow L$
- (c) $\neg \mid / \therefore \neg (H \lor J)$
- Write an essay about the growth of symbolic logic 20 2. and its utility.

OR

What is Quantification ? Explain the four rules 20 of Ouantification in detail.

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P.T.Ò.

Maximum Marks : 100

3.	Answer any two of the following in not more than 250 words each		
	(a)	Distinguish between square and figure of oppositions.	10
	(b)	Illustrate the kinds of dilemma with example.	10
	(c)	Explain argumentum and hominem and ignoratio elenchi with examples.	10
	(d)	Write truth - tables for basic operators under Boolean algebra.	10
4.	Answer any four of the following in not more than 150 words each :		
	(a)	Using Zermelo - Fraenkel - Skolem theory, show the distribution of terms in 'All equilateral triangles are equiangular triangles.	5
	(b)	Illustrate pure hypothetical syllogism and mixed hypothetical syllogism.	5
	, (c)	Write the equivalent forms for implication and disjunction.	5
	(d)	Construct truth - tables to H.S. and M.T. to show that they are tautologies.	5
	(e)	Elucidate the significance of I.P.	5
	(f)	Draw a Venn Diagram for EAE-III rd Figure and check the Validity/Invalidity of this argument.	5
5.	Write short notes on any five of the following in not more than 100 words each :		2
	(a)	Proposition	4
	(b)	Rebuttal of dilemma	4
	(c)	Argumentum ad Populum	4
	(d)	Complex question	4
	(e)	The strengthened Rule of C.P.	4
	(1)	Modus Ponens	4
	(g) (h)	Fuzzy propositions	4 4

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