

**M.A. PHILOSOPHY (MAPY)****Term-End Examination****December, 2017****MPYE-001 : LOGIC****Time : 3 hours****Maximum Marks : 100****Note :** (i) *Answer all questions.*(ii) *All questions carry equal marks.*(iii) *Answers to question no. 1 and 2 should be in about 500 words each.*

1. Use relevant rules of Inference and replacement to test the following arguments by Proof Construction Method. 20

(a)  $E \wedge (F \vee G)$

(b)  $(E \wedge G) \Rightarrow \neg (H \vee I)$

(c)  $\neg (\neg H \vee \neg I) \Rightarrow \neg (E \wedge F) / \therefore H \equiv I$

**OR**

Narrate the growth of Symbolic Logic and its utility. 20

2. Explain the meaning of fallacy. Distinguish between formal and informal fallacies. Explain various fallacies of relevance. 20

**OR**

Differentiate between proposition and sentence. 20  
Explain different types of propositions with examples.

3. Answer **any two** of the following in about **250** words each :
- (a) Is dilemma non- logical in nature ? Justify **10**  
your answer.
  - (b) Elucidate square of opposition. **10**
  - (c) Explain the rules of replacement. **10**
  - (d) What is meant by the terms Denotation and **10**  
Connotation. Explain.
4. Answer **any four** of the following in about **150** words each :
- (a) Construct the truth tables for Conjunction **5**  
and Disjunction.
  - (b) Distinguish between C.P. and Strengthened **5**  
C.P.
  - (c) Describe T.G. with example. **5**
  - (d) How do you judge the validity of an **5**  
argument ?
  - (e) Differentiate between reason and inference. **5**
  - (f) What is contingent proposition ? Explain **5**  
with example.
5. Write short notes on **any five** of the following in about **100** words each :
- (a) Figure and Mood. **4**
  - (b) Mixed Hypothetical Syllogism. **4**
  - (c) Petitio Principii. **4**
  - (d) Indirect proof. **4**
  - (e) OR and NOT operators. **4**
  - (f) Fallacy of Composition. **4**
  - (g) Structure of Antilogism. **4**
  - (h) Venn Diagram. **4**
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