

# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



## M.A. DEGREE EXAMINATION – PHILOSOPHY

FIRST SEMESTER – APRIL 2019

### 18PPL1MC04 – LOGIC & PHILOSOPHICAL INQUIRY

Date: 01-04-2019  
Time: 09:30-12:30

Dept. No.

Max. : 100 Marks

#### PART – A

Answer the following Questions

(6 x 6 = 36 Marks)

1. Compare and contrast ART and PHILOSOPHY.
2. What are the seven questions in learning?
3. Name the types of inductive reasoning.
4. Draw the square of opposition.
5. Explain what is not research?
6. If the premise P is False & the premise Q is False, then find the truth values of the following:  
a)  $\{P \cdot Q\}$ ; b)  $\{P \supset Q\}$ ; c)  $\{Q \vee P\}$ ; d)  $\{P \equiv Q\}$ ; e)  $\{(P \vee Q) \supset \sim Q\}$  f)  $\{(Q \cdot \sim P) \equiv (\sim Q)\}$ .

#### PART – B

Answer the following Questions

(4 x 16 = 64 marks)

7. A) Explain the attitudes/temperament that a philosopher should have. (16 marks)  
(OR)  
B) Explain the benefits and the value of philosophy. (16 marks)
8. A) Explain the eight rules in categorical syllogism with one example for each rule. (16 marks)  
(OR)  
B) Explain the following fallacies and give examples. 1) The red herring (5 marks);  
2) argument from ignorance (5 marks), and 3) amphiboly (6 marks).
9. A) What are the general characteristics and the specific characteristics of research? (16 marks)  
(OR)  
B) What are the functions and objectives of research? (16 marks)
10. A) Write all the Rules of Replacements. (7 Marks)  
B) Prove the following using the symbols of Propositional Logic: (4 Marks)  
If either Algebra is required or Geometry is required, then all students will study Mathematics. Algebra is required and Trigonometry is required.  
Therefore, all students will study Mathematics.  
C) Using the symbols of predicate logic, construct a formal proof: (5 Marks)  
No Auditors are Proud. Some Careerists are Auditors.  
Therefore, Some Careerists are not Proud.  
(OR)

D) Define the First type of Rules of Inference. (4 Marks)

E) Prove the following using the symbols of Propositional Logic: (5 Marks)

Steve took either the bus or the train. If he took the bus or drove his own car, then he arrived late and missed the first session. He did not arrive late. Therefore, he took the train.

F) Using the symbols of predicate logic, construct a formal proof: (7 Marks)

It is not the case that all good Speakers are excellent Writers.

All good Speakers are Knowledgeable persons.

$\therefore$  Some Knowledgeable persons are not excellent Writers.

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