



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

M.A. DEGREE EXAMINATION – **PHILOSOPHY**

FIRST SEMESTER – **NOVEMBER 2018**

**18PPL1MC04 – LOGIC AND PHILOSOPHICAL INQUIRY**

Date: 02-11-2018

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

**PART-A**

Answer all the questions

(6 x 6=36 marks)

1. Compare and contrast theology and philosophy.
2. Name the six different kinds of thinking.
3. State the three epistemological assumptions in Categorical syllogisms with examples for each.
4. Define fallacy and describe the sources of fallacies.
5. Briefly describe the methods of acquiring knowledge.
6. If it is True that “Alan goes to college” (A)

and if it is True that “Bob goes to work” (B)

then find the truth values of

- i)  $(B \cdot \sim A)$
- ii)  $(\sim A \supset B)$
- iii)  $(A \vee \sim B)$
- iv)  $(\sim A \equiv B)$
- v)  $\{(A \vee \sim B) \supset B\}$
- vi)  $\{(\sim B \cdot A) \equiv (\sim B \supset A)\}$

**PART-B**

Answer the following questions

(4 x 16=64 marks)

7. A) Explain the various characteristics of a philosopher

(16 marks)

**OR**

- B) Explain the Aims, tasks and sources of philosophy.

(16 marks)

8. A) Explain the following fallacies and give one example each:

i) Fallacy of False cause

(5 marks)

ii) Fallacy of interrogation

(5 marks)

iii) Argument against the person

(6 marks)

**OR**

- B) Explain the following fallacies and give one example each:

i) circular argument

(5 marks)

ii) the straw man

(5 marks)

iii) the appeal to emotion

(6 marks)

9. A) Explain the functions of research. (16 marks)

OR

B) Explain the various research designs. (16 marks)

10. A) Write all the Quantificational Equivalence. (4 Marks)

B) Prove the following using the symbols of Propositional Logic. (6 Marks)

If you get a First class, then you can go either for Arts or Science.

If you work Hard, you will surely get a First class. You will not take Arts.

You really work Hard. Therefore, you will surely go for Science.

C) Using the symbols of Predicate Logic, construct a formal proof: (6 Marks)

All Auditors are Graduates. Some Auditors are Cricket players.

Therefore, Some Cricket players are Graduates.

OR

D) Enumerate the Second type of Rules of Inference. (5 Marks)

E) Prove the following using the symbols of propositional logic. (7 Marks)

If the King does not castle and the Pawn advances, then either the Bishop is blocked or the Rook is pinned. If the King does not castle, then if the Bishop is blocked, then the Game is a draw. Either the King castles or if the Rook is pinned, then the Exchange is lost. The King does not castle and the Pawn advances. Therefore, either the Game is a draw or the Exchange is lost.

F) Using the symbols of predicate logic, construct a formal proof: (4 Marks)

All Liars are Dishonest. Some Liars are Journalists. Therefore, some Journalists are Dishonest.

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**Set II**