LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – **NOVEMBER 2016**

16PPL1MC04 – LOGIC AND PHILOSOPHICAL INQUIRY

Date : 29/10/2016   Dept. No.   Max. : 100 Marks
Time : 09:30-12:30

Part-A

Answer all the questions   **(6 x 6 =36 marks)**

1. Enlist the branches of Philosophy.
2. Distinguish univocal, equivocal and analogous terms.
3. Explain validity and soundness of an argument.
4. State the seven ways of viewing reality in syadvada.
5. Distinguish 'escaping between the horns of a dilemma' and 'taking the dilemma by the horns.'
6. If it is True that "Bush goes to college"(B) & if it is False that "Candy goes to work" (C) then find the truth values of

   i) (~B. ~C); ii) (~B ⊃ C); iii) (B V ~C);
   iv) (B Ξ C; v) {(B v C) ⊃ ~C}; vi) {(B.C) Ξ (~C ⊃ B)}

PART-B

Answer the following questions   **(16x4 =64 marks)**

7 A) Describe the art of philosophizing and mention its various types.   **(16 marks)**

OR

  B) Compare Philosophy with other pursuits (such as science, art, theology, and religion). **(16 marks)**

8 A) Illustrate with example any five linguistic fallacies.   **(8 Marks)**
  B) Explain the difference between nominal and real definition.   **(8 Marks)**

OR

  C) State the meaning and classification of propositions in formal logic.   **(16 Marks)**

9 A) Describe in detail Aristotle's square of opposition.   **(16 Marks)**

OR

  B) Write an essay on the principle of anekantavada in Jaina Logic.   **(16 Marks)**

10. A) Write all the rules of Replacements.   **(07 Marks)**

  B) Prove the following using the symbols of propositional logic: **(03 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:　　　**(06 Marks)**

It is not the case that good speakers are efficient writers.
All good speakers are knowledgeable.
Therefore, some knowledgeable persons are not efficient writers.

OR

D) Write all the Rules of Quantificational Equivalence.　　　**(04 Marks)**

E) Prove the following using the symbols of propositional logic:　　　**(05 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:　　　**(07 Marks)**

Some teachers are hard working. All hard working people are successful.
No successful person is lazy. Therefore, some teachers are not lazy.

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