× #	LOYOLA CO	OLLEGE (AUTONOMOUS),	, CHENNAI – 600 034					
ALC:	33	M.A. DEGREE EXAMINATION – P	PHILOSOPHY					
¥ _	<u> </u>	FIRST SEMESTER – APRI	IL 2018					
LUCEAT LU	AVESTRA 17PPL	1MC04-LOGIC AND PHILOS	OPHICAL INQUIRY					
	: 10-04-2018 09:30-12:30	Dept. No.	Max. : 100 Marks					
		PART –A						
		Answer all the questions	(6 X 6 = 36 marks)					
1.	What are the motives	for doing philosophy?						
2.	State the differences b	between a proposition and a sentence.						
3.	List out the condition	s for a valid disjunctive syllogism.						
4.	State the structure of	a categorical syllogism.						
5.	What is Sangrahanaya	a in Jaina Logic? Illustrate it with an e	example.					
6.	If it is true that "Pani truth values of	goes to college" (P) & if it is False that	at "Queen goes to work" (Q) then find the					
	i) P• ~P; ii) ~P O Q; i	ii) P v ~Q; iv) ~P Ξ Q; v) {(P v Q) O	~Q};					
	vi) {(Q.P) Ξ (~ Q Ͻ F	?)}						
	Part B Answer the following (4 X 16= 64 marks)							
7.	A) Write in detail the	benefits of studying Philosophy.	16					
		OR						
	B) Discuss in detail the	ne philosophical attitudes.	16					
8.	A) Distinguish positiv	ve, negative and privative terms.	08					
	B) Present a justificat	ion for the fallacies of hypothetical sy	yllogism 08					
		OR						
	C) Describe the classi	ification of propositions in formal logi	ic. 16					
9. A)) Illustrate any four ma	terial fallacies in formal logic.	08					
	B) Refute the following	ng dilemmas:	04					
i) If you tell me what I already understand, you do not enlarge my understanding;								
whileif you tell me something which I do not understand, then your remarks								
	ither something I already							
	understand or someth	ing which I do not understand. Hence	e, whatever you say					
	either do not enlarg	ge my understanding or else is unintell	ligible to me.					

ii) I must either devote myself to the interests of my soul, or to secular pursuits. 04If I devote myself to the interests of my soul, my business will fail; if I devote myself to secular pursuits,I shall lose my soul. Therefore, either my business will fail or else I shall lose my soul.

OR

	C) Illustrate in detail the concept of anekantavadain Jaina logic.		16
10.	A) State all the rules of replacements.		07
	B) Prove the following using the symbols of propositional logic.	03	

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

OR

10. D) Define the First Type of Rules of Inference.		
E) Prove the following using the symbols of propositional logic.	05	
If the King does not castle and the Pawn advances, then either the Bish		
is blocked or the Rook is pinned. If the King does not castle, then if		
Bishop is blocked, then the Game is a draw. Either the King castle		
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

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