

Reg. No.:



Name:

University of Kerala

U8783

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

PHILOSOPHY

UK2DSCPHI100 - Deductive Logic

Academic Level: 100-199

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions

Qn No.	Question	CL	CO
1	Identify which of the following is not an example of a categorical proposition. Options : A)All roses are flowers. B)No fish are mammals. C)Some birds can fly. D)If you study hard, then you will pass the exam.	RE	2
2	Memorise what does "validity" mean in deductive logic. Options : A)The conclusion must always be true. B)The premises must always be true. C)The conclusion follows logically from the premises. D)The argument must have true premises and a true conclusion.	RE	1
3	What is the primary focus of the study of deductive logic? Options : A)Emotional analysis B)Inferential process C)Historical events D)Artistic expression	UN	2
4	What does the traditional square of opposition illustrate? Options : A)Relationships between A, E, I, and O propositions B)The structure of deductive arguments C)Methods of scientific inference D)The hierarchy of logical terms	UN	5
5	Law of identity is related to _____.	UN	2
6	There are ----- categorical propositions? Options : A)4 B)3 C)2 D)5	UN	4

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Describe Obversion as a kind of Immediate Inference with example.	UN	5

Qn No.	Question	CL	CO
8	State the distinction between a Word and a Term.	UN	2
9	Apply the concepts of truth and validity to the following argument: "If it is a weekend, I will go to the park. It is a weekend. Therefore, I will go to the park." Is this a valid deductive argument, and is it true? Explain why or why not.	AP	1
10	Apply deductive reasoning to analyse the argument: "If it is a bird, it can fly. A penguin is a bird. Therefore, a penguin can fly." Is this argument valid?	AP	2

Part C. 28 Marks. Time: 60 Minutes (Cognitive Level: Apply (AP)/Analyse (AN)/Evaluate (EV)/Create (CR)) Long Answer: 7 marks each. Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) Interpret Induction and Deduction as a way to form the basis of scientific investigation. OR B) Apply how does immediate inference contribute to the understanding of logical relationships between propositions.	AP	1, 5
12	A) Analyze categorical proposition OR B) Compare and examine the Conversion and Obversion as types of Immediate Inference.	AN	4, 5
13	A) Evaluate the scope of logic contribute for building a framework of reasoning and knowledge. OR B) Evaluate the relationship between categorical propositions by means of traditional square of opposition.	EV	1, 5
14	A) Construct an example where an argument is valid but not true, and another where it is true but not valid. OR B) Formulate how Euler's Circle can be utilized to visually represent the four standard forms of categorical proposition.	CR	1, 4