



Reg. No.:

Name:

University of Kerala

First Semester FYUGP Degree Examination, December 2025

Discipline Specific Core Course

PHILOSOPHY

UK1DSCPHI102 - Logical Reasoning

Academic Level: 100-199

2024 Admission onwards

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	Convert the following proposition 'Some roses are red'.	RE	3
2	The middle term in a syllogism must be — Options : A)undistributed in both premises B)distributed at least in one premise C)negate at least in one premise D)none of the above	RE	2
3	In the Square of Opposition, two propositions that cannot both be true but can both be false are called — Options : A)Contradictories B)Contraries C)Sub-contraries D)Subalterns	UN	3
4	A temporary guess work in reasoning is referred to as	UN	3
5	The word Logic is derived from.....	UN	1
6	In logic, conversion means — Options : A)Interchanging subject and predicate terms B)Negating a proposition C)Adding a new term D)Forming a conditional statement	UN	3

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	Evaluate types of hypotheses. How are hypotheses tested?	UN	5
8	Give an account of positive, negative and privative terms.	UN	1
9	Apply the rule of conversion to the statement “All students are readers” and write the converted form.	AP	3
10	Apply Euler’s circles to determine whether the statement “Some students are not readers” is logically consistent.	AP	3

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) Apply the rule of obversion to the proposition “No politicians are honest” and state the new proposition derived from it. OR B) Apply the distinction between deductive and inductive reasoning to a real example from everyday life.	AP	3, 4
12	A) Analyse different types of opposition of propositions and draw the square of opposition. OR B) Analyse the logical structure of disjunctive and hypothetical syllogisms and point out how fallacies occur in them.	AN	3, 4
13	A) Evaluate the differences between scientific and unscientific explanations, with suitable examples. OR B) Evaluate the usefulness and limitations in representing immediate inferences.	EV	5, 3
14	A) Construct a logical dilemma of your own and outline two alternative resolutions.	CR	4, 4

Qn No.	Question	CL	CO
	OR B) Develop the structure of a dilemma and state any two types of Dilemma.		

Model QP