

QP CODE: 24900201



Reg No:.....

Name:.....

MAHATMA GANDHI UNIVERSITY, KOTTAYAM
FIRST SEMESTER MGU-UGP (HONOURS) REGULAR
EXAMINATION NOVEMBER 2024

First Semester

Discipline Specific Core Course - MG1DSCPHL100 - DEDUCTIVE LOGIC

(2024 ADMISSION ONWARDS)

Duration: 2 Hours

Maximum Marks: 70

**Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Interest (I),
Appreciation (Ap), and Skill (S)**

*Students should attempt atleast one question from each course outcome to enhance their overall
outcome attainability.*

[Learning Domain][CO No(s)]

Part A

Short Answer Type Questions.

Answer 8 questions. Each question carries 2 marks.

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|----|--|------|-----|
| 1 | Give an example for a contrary proposition. | [A] | [1] |
| 2 | Define inference. | [K] | [1] |
| 3 | What does it mean for an argument to be valid? | [A] | [1] |
| 4 | What is law of non - contradiction? | [K] | [2] |
| 5 | What is the truth of a proposition refers to? | [K] | [2] |
| 6 | What role do premise play in constructing a valid argument? | [A] | [2] |
| 7 | Explain the difference between a valid argument and a sound argument? | [U] | [2] |
| 8 | Identify the predicate term of the following proposition,
<i>All men are mortal</i> | [An] | [3] |
| 9 | What is the meaning of "no" in the context of an E proposition? | [K] | [3] |
| 10 | In the statement "All birds are animals". Which statement is distributed | [An] | [2] |

"birds" or "animals"

11 What is the difference between validity and soundness in deductive arguments? [A] [2]

12 Explain the Law of sufficient reason? [K] [2]

(8 × 2 = 16)

Part B

Short Essay Type Questions.

Answer 6 questions. Each question carries 5 marks.

.13 Give a brief note on the basic functions of language. [U] [2]

14 Explain the role of true propositions in a valid syllogism. [An] [2]

15 Find out the converse from the following propositions. [An] [3]
(a) SAP (b) SEP (c) SIP (d) SOP

16 Explain the role of premises in the inductive and deductive reasoning. [U] [2]

17 Give an introduction to immediate inference. [U] [1]

18 Discuss types of syllogisms with examples. [S] [3]

19 Explain Aristotelian Syllogism. [U] [4]

20 Explain the concept of quality in propositions. How does quality distinguish between affirmative and negative propositions? [U] [2]

21 Analyze how the quantity of a proposition affects its distribution. What are the rules for term distribution in universal versus particular proposition? [An] [2]

22 Briefly explain Laws of thought in logic. [U] [2]
(6 × 5 = 30)

Part C

Essay Type Questions.

Answer 2 questions. Each question carries 12 marks.

23 Discuss the nature and scope of logic. [U] [1]

24 Discuss the strengths and limitations of categorical syllogisms [U] [4]

25 Explain the structure and meaning of an A proposition and an I proposition. How do they differ in terms of quantity and distribution of terms? [U] [2]

26 Work out all possible inferences educational and oppositional inferences from-"None but citizens can hold property" [An] [3]

END OF THE QUESTION PAPER

(2 × 12 = 24)