# SET - 1

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| **University of Kerala** | | |
| Discipline: Philosophy |  | Time: 1 Hour 30 Minutes (90 Mins.) |
| Course Code: UK1DSCPHI102 |  | Total Marks: 42 |
| Course Title: LOGICAL REASONING |  |  |
| Type of Course: DSC |  |  |
| Semester: 1 |  |  |
| Academic Level: 100-199 |  |  |
| Total Credit: 3, Theory: 3 Credit  (Applicable for 4 Credit Course with 1 Credit Practical Also) |  |  |

Part A. 6 Marks. Time: 6 Minutes Objective Type. 1 Mark Each. Answer All Questions

(Cognitive Level: Remember/Understand)

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| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| 1. | ‘Some students are sincere’ is an example of which proposition?  a) Universal Affirmative  b) Universal Negative  c) Particular Affirmative  d) Particular Negative | Remember | CO - 3 |
| 2. | In the proposition ‘No dogs are reptiles’, which of the terms are distributed?   1. Only subject term 2. Only predicate term 3. Both subject and predicate terms 4. Neither subject nor predicate terms | Remember | CO - 3 |
| 3. | Which of the following represents the relation between the following propositions?  All students are young  Some students are not young   1. Subcontrary 2. Contradictory 3. Subalternation 4. Contrary | Understand | CO - 3 |
| 4. | The type of reasoning where the conclusion follows from the premises with certainty and necessity is called ………. reasoning. | Understand | CO - 2 |
| 5. | A hypothesis that cannot be tested and from which no consequences can be deduced is called a ……… hypothesis. | Understand | CO - 5 |
| 6. | In a categorical syllogism, the predicate of the conclusion is identified as the ………. term. | Understand | CO - 4 |

Part B. 8 Marks. Time: 24 Minutes

Short Answer. 2 Marks Each. Answer All Questions (Cognitive Level: Understand/Apply)

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| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| 7. | Give two definitions of logic. | Understand | CO - 1 |
| 8. | Distinguish between a term, proposition and an argument. | Understand | CO - 1 |
| 9. | Explain conversion by limitation with an example. | Apply | CO - 3 |
| 10. | Distinguish between scientific and unscientific explanations. | Apply | CO - 5 |

Part C. 28 Marks. Time: 60 Minutes

Long Answer. 7 marks each. Answer all 4 Questions, choosing among options within each question.

(Cognitive Level: Apply/Analyse/Evaluate/Create)

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| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| 11. | (a) Illustrate the role of observation and experiment in the testing of hypotheses.  OR  (b) Distinguish between working, barren, false and rival hypotheses with suitable examples for each. | Apply | CO - 5 |
| 12. | (a) Analyze quantity, quality and distribution of terms in the A,E,I and O propositions.  OR  (b) Analyze the opposition relation as a form of immediate inference and bring to light the deductions from the classical square of opposition. | Analyze | CO - 3 |
| 13. | (a) Evaluate the rules and resulting fallacies in a standard form categorical syllogism.  OR  (b) Evaluate hypothetical and disjunctive syllogisms and illustrate their rules and fallacies. | Evaluate | CO - 4 |
| 14. | (a) Distinguish between truth and validity and illustrate the seven conditions of validity/invalidity in a deductive argument.  OR  (b) Solve the following brainteaser and indicate the steps through which the answer was arrived at:  In a certain flight crew, the positions of pilot, copilot and flight engineer are held by three persons; Allen, Brown and Carr, though not necessarily in that order. The copilot, who is an only child, earns the least. Carr, who married Brown’s sister earns more than the pilot. What position does each of the persons hold? | Create | CO - 2 |

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| **Cognitive**  **Level** | **Marks** | **Percentage** |
| Remember | 2 | 4.8 |
| Understand | 8 | 19.0 |
| Apply | 11 | 26.2 |
| Analyse | 7 | 16.7 |
| Evaluate | 7 | 16.7 |
| Create | 7 | 16.7 |
| **TOTAL** | **42** | **100** |

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| **Course**  **Outcomes** | **Marks** | **Percentage** |
| CO - 1 | 4 | 9.5 |
| CO - 2 | 8 | 19 |
| CO - 3 | 12 | 28.7 |
| CO - 4 | 8 | 19 |
| CO – 5 | 10 | 23.8 |
| CO - 6 | 0 | 0 |
| **TOTAL** | **42** | **100** |