UNIVERSITY OF NORTH BENGAL

B.A. Honours 4th Semester Examination, 2021

GE4-PHILOSOPHY

WESTERN LOGIC

Full Marks: 60

ASSIGNMENT

The questions are of equal value.
The figures in the margin indicate full marks.

Prepare assignments on any *three* of the following within 800 words each   20×3 = 60

1. (a) Explain and illustrate the different kinds of propositions of the fourfold scheme.   10

    (b) Discuss with examples the term or terms distributed in A, E, I and O propositions.   10

2. (a) Distinguish between Inductive and Deductive inference with examples.   6

    (b) Explain different rules of Conversion with examples.   8

    (c) Explain the Simple Conversion of 'A' proposition with examples.   6

3. (a) Test the validity or invalidity of the following argument and argument form with the help of truth table method: 5+5 = 10

    (i) All that glitters are not gold, this tinsel glitters; therefore, this tinsel is not gold.

    (ii) $(p \lor \sim q) \supset (\sim p \lor \sim q)$

    $\sim (p \lor \sim q) / \therefore \sim (\sim p \lor \sim q)$

    (b) Use truth tables to determine the validity of the following statements forms as tautology, self-contradictory or contingent: 5+5 = 10

    (i) $(p \lor q) \cdot (\sim p \supset q)$

    (ii) $P \supset [\sim p \supset (q \lor \sim q)]$

4. Explain traditional square of opposition of proposition with examples.   20

5. (a) Transform the following arguments into standard form and test their validity by means of Venn diagram: 5+5 = 10

    (i) AII-3rd Figure

    (ii) AOO-2nd Figure

    (b) Transform the following into standard form and prove the validity by means of syllogistic rule: 5+5 = 10

    (i) Children are always cowards, but not always liars. Liars, therefore, are not always cowards.

    (ii) No stars are planets. All planets are organic things; therefore, some organic things are not stars.

6. Define analogical argument. Explain its different forms with examples.   3+17 = 20

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