UNIVERSITY OF NORTH BENGAL

B.A. Honours 2nd Semester Examination, 2019

GE2-PHILOSOPHY

WESTERN (LOGIC)

Time Allotted: 2 Hours | Full Marks: 60

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.

SECTION-I

1. Answer any ***four*** questions from the following: 3×4 = 12

   (a) Distinguish between figure and mood. 3

   (b) What do you mean by inductive generalization? 3

   (c) Is categorical syllogism a deductive argument? Why? 3

   (d) What do you mean by class? 3

   (e) What do you mean by existential fallacy? 3

   (f) Transform the following into standard-form categorical propositions: 1×3 = 3

   (i) Roses are fragrant

   (ii) Only members can use the front door

   (iii) All that glitters is not gold.

SECTION-II

2. Answer any ***four*** questions from the following: 6×4 = 24

   (a) Determine the validity or invalidity of the following by syllogistic rules. 3+3 = 6

   (i) No *M* is *S*. So, some *S* is *P*. Since some *P* is not *M*.

   (ii) He knows his own son; so he must be a wise father.

   (b) Explain the fallacy of undistributed middle with example. 6

   (c) What is meant by 'existential import' of Proposition? Explain with illustration. 6

   (d) What is obersion? Obvert the following: 2+2+2 = 6

   (i) Only children are happy

   (ii) Reporters are present.

(e) Use truth table to determine the following statements form as tautology, self-contradictory or contingent. 3+3 = 6

(i) $[p \supset (p \supset q)] \supset q$

(ii) $p \equiv [p \cdot (q \supset p)]$

(f) Distinguish between deduction and induction, with examples. 6

SECTION-III

3. Answer any ***two*** questions from the following: 12×2 = 24

(a) What do you mean by distribution of term? Which term/terms is/are distributed in which proposition? Reduce the following sentences into logical propositions and show which term/terms is/are distributed. 4+4+2+2=12

(i) All people desire recognition

(ii) Some people drink.

(b) Determine the validity and invalidity of the following arguments with the help of Venn diagram. 4+4+4 = 12

(i) Some parrots are not pests. All parrots are pets; therefore, no pets are pests.

(ii) All puzzles-lovers are bridge players. Since not all women are puzzle-lovers, and some women are bridge-players.

(iii) EAE-1st Figure.

(c) Use truth table to determine the validity or invalidity of the following arguments: 12

(i) $E \supset F$

$F \supset E \ / \therefore E \vee F$

(ii) $K \vee L$

$K \ / \therefore \sim L$

(iii) If Albania manages to free itself from Chinese influence then both Bulgaria and Czechoslovakia will adopt more liberal policies. But Bulgaria will not adopt a more liberal policy. Therefore, Albania will not manage to free itself from Chinese influence.

(d) What is opposition of proposition? Explain and illustrate different kinds of opposition of proposition. 2+10 = 12

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