

'समानो मन्त्रः समितिः समानी' UNIVERSITY OF NORTH BENGAL B.A. Honours 2nd Semester Examination, 2023

# GE1-P2-PHILOSOPHY

## LOGIC (WESTERN)

Time Allotted: 2 Hours

Full Marks: 60

The figures in the margin indicate full marks.

## **SECTION-I**

1.		Answer any <i>four</i> questions from the following:	$3 \times 4 = 12$
	(a)	What do you mean by a Deductive Argument? Explain with an example.	3
	(b)	What is contraposition? Explain.	3
	(c)	What is meant by existential fallacy? Give an example.	3
	(d)	Explain the fallacy of undistributed middle term with suitable example.	3
	(e)	What do you mean by inductive generalization?	3
	(f)	Transform the following Propositions into standard-form of categorical propositions:(any <i>three</i> )	1+1+1
		(i) Roses are white.	
		(ii) Only human beings have desire.	

(iii) All fruits are not sweet.

(iv) There are no round circles.

## **SECTION-II**

2.		Answer any <i>four</i> questions from the following:	$6 \times 4 = 24$
	(a)	What is opposition of Propositions? Write the names of the different kinds of opposition of Propositions with examples.	3+3
	(b)	What is an inference? Distinguish between mediate and immediate inference. Mention the names of different types of immediate inference.	2+2+2
	(c)	What is obversion? What are the rules of obversion? Explain with examples.	2+4
	(d)	What do you mean by an 'Individual Variable' and an 'Individual Constant'? Distinguish between 'an individual variable' and 'an individual constant' with example.	3+3

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- (e) Test the validity or invalidity of the following arguments by truth table:
  - (i)  $p \supset (q \lor r)$   $p \lor r / \therefore q \lor r$ (ii)  $p \supset (p \lor q)$  $\sim (p \lor q) / \therefore \sim p$
- (f) Test the validity or invalidity of the following arguments by syllogistic rules: (any *two*)
  - (i) AAI -1st figure.
  - (ii) Shyam is mortal because he is a man.
  - (iii) Students are brilliant persons, because they read book.

#### **SECTION-III**

3. Answer any *two* questions from the following:  $12 \times 2 = 24$ 

- (a) Distinguish between a 'statement' and a 'statement form' with an example. Use 3+3+3+3
  truth table to determine the following statements as tautology, self-contradictory and contingent:
  - (i)  $p \equiv [p \lor (p \cdot q)]$
  - (ii)  $[p \supset (p \supset p)] \supset p$
  - (iii)  $(p \lor \sim q) \supset [q \equiv (p \lor r)]$
- (b) Test the validity or invalidity of the following argument with the help of 4+4+4 Venn-diagram:
  - (i) EAE-4th figure.
  - (ii) AII-1st figure.
  - (iii) Ferocious animals are not calm, because tigers are not calm and tigers are ferocious.
- (c) What is existential import of propositions? Does all standard form categorical 2+10 proposition have existential import? Explain with examples.
- (d) What is an analogical argument? Distinguish between argumentative and 4+8 non-argumentative use of analogies. Explain with examples.

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