

'समानो मन्त्रः समितिः समानी'

### UNIVERSITY OF NORTH BENGAL

B.A. Honours 4th Semester Examination, 2022

# GE2-P2-PHILOSOPHY

# WESTERN LOGIC

Time Allotted: 2 Hours Full Marks: 60

> The figures in the margin indicate full marks. All symbols are of usual significance.

#### **SECTION-I**

 $3 \times 4 = 12$ 1. Answer any *four* questions from the following: (a) What is Copula? What is the function of it?  $1\frac{1}{2} + 1\frac{1}{2} = 3$ (b) Convert the following:  $1\frac{1}{2} + 1\frac{1}{2} = 3$ (i) Roses are red (ii) Only children are happy. (c) When is an argument valid? 3 (d) What does  $SP \neq 0$  mean? (e) Transform the following into standard form of categorical proposition: 1+1+1=3Almost all men are fond of music (ii) Every man is not wise (iii) Men are never perfect. (f) Give one example of deductive argument. 3 **SECTION-II**  $6 \times 4 = 24$ 2. Answer any *four* questions from the following: (a) What is opposition of proposition? Explain Contradictory opposition with 2+4=6example. (b) What is Conversion? What are the rules of Conversion? Explain with example. 2+2+2=6(c) Explain fallacy of Illicit major with example. 6 (d) Determine nature of the following statement / statement form with the help of 2+2+2=6truth table: (i)  $p \equiv [p \cdot (p \vee q)]$ 

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

Ram is elected treasurer.

(iii) Jadu is elected class president, then either Hari is elected vice-president or

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(e) Determine the validity or invalidity of the following argument / argument form with the help of syllogistic rules:

3+3=6

- (i) AEE 3rd figure
- (ii) No birds is made of paper; as all kites are birds, so no kites are made of paper.
- (f) What is distribution of terms? What term / terms is / are distributed in which proposition? Explain briefly with example.

2+4=6

### **SECTION-III**

# Answer any two questions from the following

 $12 \times 2 = 24$ 

3. What is analogical argument? What are the criteria of evaluating analogical arguments? Explain.

4+8 = 12

- 4. Determine the validity or invalidity of the following argument / argument 4+4+4=12 forms with the help of Venn diagram:
  - (i) AAA 1st figure
  - (ii) EIO 4th figure
  - (iii) All that is bright are not gold, all your ornaments are bright so all of your ornaments are not gold.
- 5. Determine the validity or invalidity of the following argument / argument forms with the help of truth table:
  - (i) Naresh will play either football or cricket. Naresh will not play cricket. So Naresh will play football.
  - (ii)  $p \supset q$
- (iii)  $(p \lor q) \supset (p \cdot q)$
- $q \supset p$

 $\sim (p \vee q)$ 

 $\therefore p \vee q$ 

- $\therefore \sim (p \cdot q)$
- 6. What is existential import of propositions? Give the Boolean interpretation of 4+8=12 categorical propositions. Explain.

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