



**COOCH BEHAR PANCHANAN BARMA UNIVERSITY**

B.A. Honours 4th Semester Examinations, 2023

Under Revised Syllabus

**PHILOSOPHY**

**WESTERN LOGIC-I**

**CORE-8**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

1. Answer any **one** question from the following: 15×1 = 15
- (a) Construct the formal proof of validity of the following: 5×3 = 15
- (i)  $Z \supset A$   
 $Z \vee A$   
 $\therefore A$
- (ii)  $(B \supset B) \supset (A \supset A)$   
 $(A \supset A) \supset (B \supset B)$   
 $\therefore A \supset A$
- (iii) Jones will come if she gets the message, provided that she is still interested. Although she didn't come, she is still interested. Therefore she didn't get the message (C, M, I).
- (b) What is analogical argument? What are the different criteria for the appraisal of analogical argument? Explain. 3+12
- (c) (i) What is existential import? 5
- (ii) Determine the validity and invalidity of the following arguments with the help of Venn Diagram. 5+5
- (I) AEE- 4<sup>th</sup> figure.
- (II) Some reformers are fanatics, so some idealists are fanatics, since all reformers are idealist.
2. Answer any **one** question from the following: 10×1 = 10
- (a) Determine the validity or invalidity of the following arguments with the help of Truth Table method: 5+5
- (i)  $(G \vee H) \supset (G \cdot H)$   
 $\sim(G \cdot H)$   
 $\therefore \sim(G \vee H)$

$$(ii) (R \vee S) \supset T$$

$$T \supset (R \cdot S)$$

$$\therefore (R \cdot S) \supset (R \vee S)$$

- (b) What is Opposition of Proposition? Discuss different types of opposition of proposition with examples.

2+8

3. Answer any *one* question from the following:

5×1 = 5

- (a) What is induction per simple enumeration?

5

- (b) Use Reductio-ad-absurdum method to determine the validity of the following argument:

5

$$(A \vee B) \supset (C \cdot D)$$

$$(D \vee E) \supset F$$

$$\therefore A \supset F$$

4. Answer any *ten* questions from the following:

1×10 = 10

- (a) What do you mean by 'copula'?

- (b) What is mood?

- (c) What is enthymeme?

- (d) Is truth table a decision procedure?

- (e) When an argument is valid?

- (f) Give an example of tautological statement.

- (g) What is distribution of terms?

- (h) Give an example of 'fallacy of undistributed middle'.

- (i) What is obversion?

- (j) Give an example of simple conversion.

- (k) What is mediate inference?

- (l) What do you mean by fallacy of illicit major?

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