



COOCH BEHAR PANCHANAN BARMA UNIVERSITY
B.A. Honours 4th Semester Examination, 2021

PHILOSOPHY

WESTERN LOGIC-I

CORE-8

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.*

Answer any two questions from the following

20×2 = 40

1. (a) State the general rules of syllogism to test the validity of arguments according to Copi. 10
- (b) Test the validity or invalidity of the following arguments by means of Venn diagram: 5×2 = 10
 - (i) Some mammals are not horses, for no horses are centaurs, and all centaurs are mammals.
 - (ii) OAO-2.
2. Construct the formal proof of validity of the following: 5×4 = 20
 - (a) $(Z \supset Z) \supset (A \supset A)$
 $(A \supset A) \supset (Z \supset Z) / A \supset A$
 - (b) $J \vee (\sim J \cdot K)$
 $J \supset L / (L \cdot J) \equiv J$
 - (c) If the first disjunction is true, the disjunction as a whole is true. Therefore, if both the first and second disjuncts of the disjunction are true, then the disjunction as a whole is true. (F, W, S)
 - (d) If either Plato was happily married or else he wasn't, then Plato was a great philosopher. Therefore, Plato was a great philosopher. (H, G)
3. What is Conversion? Explain the various rules of Conversion with reference to A, E, I, O propositions. Can 'A' proposition be converted simply? Discuss. 2+10+8

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