B.A.LL.B. (5 Years Course) CBCS Pattern Semester-II

Course Code UL52C05 - Philosophy-II

P. Pages : 1 **GUG/W/23/10103**

Time : Three Hours * 5 4 7 0 * Max. Marks : 80

Notes : 1. All questions are compulsory.
2. Each questions carries equal marks.

1. Define logical connective. Discuss the different kinds of logical connective.

OR

What is compound statements? Explain its types.

2. Use truth tables to determine the validity or invalidity of the following arguments.

a) $(A \vee B) \supset \subset$
$\subset \supset (A \cdot B) / \therefore (A \cdot B) \supset (A \vee B)$

b) $P \supset (Q \vee R)$
$(Q \cdot R) \supset \sim P / \therefore \sim P$

OR

What is decision procedure? Explain how validity of an argument is determined by shorter truth table method.

3. Distinguish between rules of inference and rules of replacement. Explain the rules of M.P., M. T. & H. S.

OR

Construct a formal proof of validity.

a) $T \supset (U.V)$
$(U \vee V) \supset W / \therefore T \supset W$

b) $(P \supset Q) \cdot (P \vee R)$
$(R \supset S) \cdot (R \vee P) / \therefore Q \vee S$

4. Explain with illustration the rules of quantification.

OR

Prove the invalidity of the following.

a) $(x)(Sx \supset \sim Tx)$
$(x)(Tx \supset Ux) / \therefore (\exists x)(Ux \cdot \sim Sx)$

b) $(x)(Ax \supset Bx)$
$(x)(Ax \supset Cx) / \therefore (x)(Cx \supset Bx)$

5. Explain the function of definition and purpose of definition.

OR

Write notes on:

i) Method of definition. ii) Three laws of thoughts

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