

B.A.LL.B. (5 Years Course) (CBCS Pattern) Semester-II  
**UL52C05 - Philosophy-II**

P. Pages : 2

Time : Three Hours



**GUG/W/24/10103**

Max. Marks : 80

- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.

1. Distinguish between truth functional compound statement and non-truth functional compound statement. Explain the various types of truth functional compound statements.

**OR**

Write a note on - Symbolizing statements.

2. What are the basic principles of shorter truth table method? Explain how validity of an argument is determined by shorter truth table.

**OR**

Use truth table to determine whether the statement forms as tautologous, contradictory or contingent.

a)  $[p \supset (q \supset r)] \supset [(p \supset q) \supset (p \supset r)]$

b)  $[p \cdot (q \vee r)] \equiv [(p \cdot q) \vee (p \cdot r)]$

3. Construct a formal proof of validity for each of the following arguments:

a)  $G \vee (\sim G \cdot H)$   
 $G \supset I / \therefore (I \cdot G) \equiv G$

b)  $(I \vee J) \supset (K \cdot L)$   
 $\sim I \supset (M \supset \sim M)$   
 $\sim K / \therefore \sim M$

**OR**

Explain with illustration the method of direct deductive proof and discuss how it is different from decision procedure.

4. Explain the various rules of quantificational deduction.

**OR**

Prove the invalidity of the following:

a)  $(\exists x)(Ax \cdot Bx)$

$(\exists x)(Cx \cdot Bx) / \therefore (x)(Cx \supset \sim Ax)$

b)  $(\exists x)(Mx \cdot Nx)$

$(\exists x)(Mx \cdot Ox) / \therefore (x)(Ox \supset Nx)$

5. What is definition? What are the different kinds of definitions? Illustrate your answer.

**OR**

Write short notes on

- a) Purpose of definition.
- b) Inconsistency.

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