

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

P. Pages : 2

Time : Three Hours



**GUG/W/22/10103**

Max. Marks : 80

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

1. How many symbols are used to symbolize truth functional compound statement? Discuss

**OR**

If A & B are true statements and x & y are false statement which of the following compound statements are true?

- i)  $[(A \supset x) \supset y] \vee B$
- ii)  $\sim(A \vee y) \cdot (B \vee x)$
- iii)  $[A \supset (B \vee x)] \cdot \sim[(A \cdot B) \vee (x \cdot y)]$
- iv)  $[(A \cdot x) \supset B] \supset [(A \supset x) \supset y]$

2. What is decision procedure? Explain the nature of truth table as a decision procedure.

**OR**

Prove the invalidity of the following arguments by the method of shorter truth table.

- i)  $\sim(E \cdot F)$   
 $(\sim E \cdot \sim F) \supset (G \cdot H)$   
 $H \supset G \therefore G$
- ii)  $A \equiv (B \vee C)$   
 $B \equiv (C \vee A)$   
 $C \equiv (A \vee B)$   
 $\sim A \therefore B \vee C$

3. Explain the meaning and use of deductive proof. How to construct formal proof of validity by the method of direct deductive proof?

**OR**

Construct a formal proof of validity.

- i)  $J \vee (\sim J \cdot K)$   
 $J \supset L \therefore (L \cdot J) \equiv J$
- ii)  $(M \supset N) \cdot (O \supset P)$   
 $\sim N \vee \sim P$   
 $\sim (M \cdot O) \supset Q \therefore Q$

4. Distinguish between singular and general propositions. How are general propositions symbolized.

**OR**

Construct a formal proof of validity

- i)  $(x) (Mx \supset Nx)$   
 $(\exists x) (Mx \cdot Ox) / \therefore (\exists x) (Ox \cdot Nx)$
- ii)  $(x) (Ax \supset \sim Bx)$   
 $(x) (Cx \supset Bx) / \therefore (x) (Cx \supset \sim Ax)$

5. Define the definition. Explain the various kinds of definition.

**OR**

Write short note on – Inconsistency and three laws of thought.

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