

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

P. Pages : 2

Time : Three Hours



**GUG/S/24/10103**

Max. Marks : 80

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

1. What is statement connectives? Discuss the various types of statement connectives.

**OR**

What is Statement? Explain the different kinds of compound statement. Illustrate your answer.

2. What are the conditions of effective decision procedure? Is shorter truth table method effective decision procedure? Discuss.

**OR**

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

- a)  $(O \vee P) \supset Q$   
 $Q \supset (O \cdot P) / \therefore (O \vee P) \supset (O \cdot P)$
- b)  $U \supset (V \vee W)$   
 $(V \cdot W) \supset \sim U / \therefore \sim U$

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

- a)  $(R \vee S) \supset (T \cdot U)$   
 $\sim R \supset (V \supset \sim V)$   
 $\sim T / \therefore \sim V$
- b)  $A \vee (\sim A \cdot B)$   
 $A \supset C / \therefore (C \cdot A) \equiv A$

**OR**

What is deductive proof? How to construct formal proof of validity by the method of direct deductive proof? Illustrate your answer.

4. Distinguish between proposition and propositional function. How many methods are there for obtaining propositions from a propositional function , Explain.

**OR**

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

- a) All jesters are knaves. No knaves are lucky. Therefore, no jesters are lucky  
( $J_x, K_x, L_x$ ).
- b) No gamblers are happy. Some idealists are happy. Therefore, some idealists are not gamblers ( $G_x, H_x, I_x$ ).

5. On the basis of purpose of definition, how many kinds of definition? Discuss.

**OR**

Write short notes on:

- a) Inconsistency
- b) Three laws of thought

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