

(Pages : 2)

J – 4003

Reg. No. : .....

Name : .....

**Second Semester M.A. (Philosophy) Degree Examination, May 2020**

**PY 223 — SYMBOLIC LOGIC**

**(2017 Admn Onwards)**

Time : 3 Hours

Max. Marks : 75

SECTION – A

Answer any **five** questions. Each question carries **6** marks. Answer should not be less than **400** words.

1. Make comparison between Modern logic and Classical logic.
2. Elaborate the techniques of symbolization.
3. Write a note on Logical equivalence and De Morgan Theorems.
4. Discuss Statement and Statement forms.
5. Analyze “Paradox of Material Implication”.
6. State the Rules of Replacement.
7. Describe Singular and General propositions.
8. Analyze Shorter Truth table technique as a quickest and easiest method of testing arguments and classifying statements.

**(5 × 6 = 30 Marks)**

P.T.O.



## SECTION – B

Answer any **three** questions. Each question carries **15** marks. Answer should not be less than **1000** words.

9. Symbolize Categorical propositions by means of quantification and represent them in a square of array.
10. Test the validity of given argument by Truth table technique.

$$G \supset (I \cdot D)$$

$$(I \vee D) \supset B$$

$$\therefore G \supset B$$

11. Elaborate the method of Conditional proof and its advantages with example.
12. Construct the formal proof of validity of the given argument.

$$J \cdot (K \cdot L)$$

$$(K \cdot J) \supset [M \vee (N \vee O)]$$

$$\sim M \cdot (\sim P \cdot \sim O)$$

$$\therefore N$$

13. What is Truth functionally compound proposition? Describe the features of different Truth functionally compound propositions with respective truth tables.

**(3 × 15 = 45 Marks)**

