Logic

Time: 3 hrs

RPS 2433/3423

Total Marks: 75

Answer any FIVE of the following questions in about five pages each. **(5x15=75)**

1. Explain the formal character, truth and validity and scope of logic

2. Distinguish deductive and inductive reasoning with examples. Also specify the conditions for good reasoning.

3. Classify propositions in traditional logic and represent them in Venn diagram.

4. What are the various types of immediate inference and give their valid forms through the square of opposition.

5. How propositions are classified in symbolic logic and give their logical form

6. Draw the simple truth table for all the logical connectives and specify their valid forms.

7. State all the rules of inference and the rules of equivalence.