



PART - D

Answer **any two** questions. **Each** question carries a weightage of **four**. Answer should not exceed **200** words.

29. Distinguish between material implication and material equivalence and demonstrate their truth tables.

30. Describe the method of testing the validity of argument forms by truth table method. Test the validity of the following by truth table method :

$$(p \cdot q) \supset \sim p.$$

31. Define formal proof of validity and present the symbolic form of the nine elementary valid argument forms.

32. Describe the origin, development and scope of internet. **(Weightage 2×4=8)**



Reg. No. :

Name :

IV Semester B.A. Degree (CCSS-Reg./Supple./Imp.) Examination, May 2015
CORE COURSE IN PHILOSOPHY
4B06 PHIL : Symbolic Logic and Informatics
(2013 Admn.)

Time : 3 Hours

Max. Weightage : 24

PART - A

Answer **all** questions. A bunch of **4** questions carries a weightage of **one**.

- _____ is the book that demonstrates logician's interest in mathematical formulations.
 - Meditations
 - Language, truth and logic
 - Tractatus logico philosophicus
 - Principia mathematica
- The symbol ' \supset ' is a _____.
 - constant
 - proposition
 - variable
 - statement
- _____ is a compound proposition.
 - Disjunctive
 - Bi-conditional
 - Conjunctive
 - All these
- If the statement 'John is not a miser' is symbolized as $\sim M$, then M stands for _____.
 - not John
 - not a miser
 - John is a miser
 - John is not
- ' $\sim S$ ' is the symbolic representation of a _____ proposition.
 - simple affirmative
 - compound affirmative
 - simple negative
 - compound negative

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- PART-B

PART - C

23. Summarize the main differences between traditional and symbolic logic.
24. Determine the truth-value of the conclusions in four possible combinations of T and F in $p \cdot q$.
25. Write a note on disjunction and present its truth table.
26. If p is true and q is false, find out the truth-value of $\sim (p \vee q)$ by truth table method.
27. Distinguish between tautology and contradiction. Give examples.
28. Describe the scope of INFLIBNET as a database.