



K25U 1370

Reg. No. :

Name :

Second Semester B.A. Degree (C.B.C.S.S. – O.B.E. – Supplementary/
Improvement) Examination, April 2025
(2019 to 2023 Admissions)
COMPLEMENTARY ELECTIVE COURSE IN PHILOSOPHY
2C03 PHI : Symbolic Logic and Computer Application

Time : 3 Hours

Max. Marks : 40

PART – A
(Short Answer)

Answer **all** questions. **Each** answer carries **1** mark. (6×1=6)

1. Write a note on variables.
2. Give the symbol of disjunction.
3. The logical connective symbol wedge stands in symbolic logic for _____
4. *Principia Mathematica* was written by _____
5. Give the binary equivalent of decimal 10.
6. The statement form that has both true and false substitution instances.

PART – B
(Short Essay)

Answer **any six** questions. **Each** answer carries **2** marks. (6×2=12)

7. Give an example of bi-conditional truth functional connective.
8. Distinguish between decimal number and binary number.
9. Define symbolic logic.

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10. Give an example of a complex statement.
11. Write a brief note on implication.
12. What is a contradictory statement form ?
13. What is meant by argument ?
14. Write a note on Tautology statement form.

PART – C
(Essay)

Answer **any four** questions. **Each** answer carries **3** marks. (4×3=12)

15. State the advantages of symbolism.
16. Give the truth table of material equivalence.
17. State De morgan's theorem.
18. Distinguish between simple and compound statements.
19. Write a note on logical equivalence.
20. Distinguish between truth and validity.

PART – D
(Long Essay)

Answer **any two** questions. **Each** answer carries **5** marks. (2×5=10)

21. What are the three basic logical operators in Boolean algebra ? Present its truth tables and logical gates.
22. Distinguish between argument form and statement form.
23. Elucidate on the nature, characteristics and advantages of symbolic logic.
24. Elucidate on the various truth functional statements and their truth tables.