



K22U 1028

Reg. No. : .....

Name : .....

## II Semester B.A. Degree (C.B.C.S.S. – Supplementary)

Examination, April 2022

(2016-2018 Admissions)

## CORE COURSE IN PHILOSOPHY

## 2B02 PHI : Logic and Scientific Method

Time : 3 Hours

Max. Marks : 40

## PART – A

Fill up the blanks. Answer **all** questions. **Each** answer carries **1** mark.

1. Validity and invalidity are the characteristics of \_\_\_\_\_
2. Particular negative propositions distribute their \_\_\_\_\_
3. Reasoning based on resemblances is known as \_\_\_\_\_
4. When a theory is confirmed by experiment, it is known as \_\_\_\_\_ (4×1=4)

## PART – B

Answer **any seven** questions. Answers should **not** exceed **50** words. **Each** answer carries **2** marks.

5. What is meant by Inference ?
6. Explain Conclusion Indicator.
7. Define Contraposition.
8. Give the sub contrary opposition of *Some flowers are beautiful*.
9. Explain fallacy of Affirming the Consequent.
10. Examine the structure of a Simple Destructive Dilemma.
11. What is meant by Induction ?

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12. Define Theory.
13. Discuss the nature of Inversion.
14. Describe the problem of Induction. (7×2=14)

## PART – C

Answer **any four** questions. Answers should **not** exceed **100** words. **Each** answer carries **3** marks.

15. Explain the nature of Terms, Propositions and Arguments.
16. Distinguish between Truth and Validity.
17. Discuss the fallacy of Illicit Minor.
18. Describe the structure of Disjunctive Syllogism with an example.
19. Explain the two types of Hypothetical Syllogism.
20. Distinguish between Hypothesis and Theory. (4×3=12)

## PART – D

Answer **any two** questions. Answers should **not** exceed **250** words. **Each** answer carries **5** marks.

21. Give an account of the traditional square of Opposition and bring out different relations between propositions.
22. Distinguish between Enumerative Induction and Scientific Induction.
23. Check the validity of the following argument.  
All bats are mammals.  
No rats are bats.  
Therefore no rats are mammals.
24. Construct a Complex Constructive Dilemma and Rebut it. (2×5=10)