

2025

M.Sc. 1st Semester Examination
COMPUTER SCIENCE

Paper : COSC403X1

(Research Methodology and Ethics)

Full Marks : 35

Time : One Hour Thirty Minutes

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *five* questions : 2×5=10

1. What do you mean by research?
2. Distinguish between Research methods and Research methodology.
3. What are the sources of collecting secondary and primary data?
4. What is research ethics?
5. Define sampling.
6. Write the process of sample survey.

P.T.O.

(2)

7. What is the role of hypothesis?
8. Write the important steps involved in a research design.

Group - B

Answer any *three* questions : $4 \times 3 = 12$

9. Describe the different types of research, clearly pointing out the difference between an experiment and a survey.
10. What are the merits and limitations of sampling?
11. What is the necessity of defining a research problem? Explain.
12. What is a research report, and what are its types?
13. Explain various tools available for testing of hypotheses.

Group - C

Answer any *one* question : $8 \times 1 = 8$

14. (a) Explain parametric test.
(b) Write short note on SPSS for data analysis. $3+5$
15. (a) Write a short note on chi-square test.
(b) Write short note on ANOVA. $4+4$

Internal Assessment - 5 marks
