

2025

M.Sc. 1st Semester Examination

**BIOTECHNOLOGY AND
BIOINFORMATICS**

Paper : BTIC404X0

[Research Methodology and Ethics]

Full Marks : 50

Time : Two Hours

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 *four* questions : $2 \times 4 = 8$

1. Distinguish between method and methodology.
2. Give short note on 'Survey'.
3. Define 'concept' with examples.
4. What is a proposition?
5. Write brief note on plagiarism.
6. Distinguish between 'data' and 'information'.

P.T.O.

(2)

Group - B

Answer any *four* questions : $4 \times 4 = 16$

7. Give the definition of 'Research Design'.
8. Write short notes on :
 - (i) Biosafety
 - (ii) Sampling
9. What is meant by relevance of a research design?
10. What is meant by 'validity' in research?
11. What do you mean by 'standard error'?
12. Distinguish between quantitative and qualitative data.

Group - C

Answer any *two* questions : $8 \times 2 = 16$

13. Explain the importance of studying research methodology.
14. State the characteristic features of quantitative and qualitative data.
15. Prepare a research design by following the different steps.
16. How can quantitative and qualitative data be combined? Explain.

Internal Assessment - 10 marks
