

2025

M.Sc. 1st Semester Examination

BIOCHEMISTRY

Paper : BICC403X0

(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 : 2×4=8

1. Distinguish between descriptive and analytical research.
2. What is null hypothesis?
3. Mention any two principles of research ethics.
4. Briefly define the concept of sampling.
5. What is misrepresentation of data?
6. Define salami slicing.

P.T.O.

(2)

Group - B

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

7. Define research plant and discuss its significance in scientific studies. $1+3$
8. Discuss qualitative and quantitative research. $2+2$
9. What is research design? Explain the significance of research design. $1+3$
10. Mention the differences between probability and non-probability sampling method.
11. Explain various ethical issues involved in research.
12. Briefly explain the advantages of sampling in research.

Group - C

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

13. Explain basic and applied research with suitable example. What is plagiarism? $6+2$
14. What is research ethics? Explain the importance of ethics in research and academic life and confidentiality in research involving $2+6$
15. Briefly explain the random, stratified, cluster and systemic probability sampling methods.
16. What is a research problem? Discuss the criteria for a good research problem. Define complex and Directional hypothesis with suitable example. $2+3+3$

Internal Assessment : 10 marks
