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MBC-010

M. SC. IN BIOCHEMISTRY
(MSCBCH)

Term-End Examination

June, 2026

MBC-010 : RESEARCH METHODOLOGY

Time : 3 Hours

Maximum Marks : 100

Note : (i) Answer any **five** questions.

(ii) All questions carry equal marks.

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1. (a) What is Research Methodology ?
Explain its different types. 10
 - (b) Write notes on the following : 5+5
 - (i) Quota Sampling
 - (ii) Simple Random Sampling
 2. With the help of a flowchart, explain the research process in detail. 20

3. (a) Discuss formal experimental designs. 10
(b) Write detailed note on case study strategy in research. 10
4. (a) Describe the ethical issues concerning research participants. 10
(b) Explain the challenges and emerging issues in research ethics. 10
5. (a) Describe the reference part of writing a research paper. Explain different referencing styles. 10
(b) What is COPE ? Explain its foundation and objectives. 10
6. (a) Discuss the role of Institutional Animal Ethical Committee. 10
(b) What are Biohazards ? Discuss different methods for safe disposed of biohazards. 10

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7. (a) Describe cross-border movement of germplasm and its importance. 10
- (b) What is IPR ? Explain its different types. 10
8. (a) Give an overview of international pathways for patent protection and harmonization. 10
- (b) Enumerate ethical guidelines in clinical research. 10

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