

No. of Printed Pages : 3

MBC-010

**M. SC. (HONOURS)
(BIOCHEMISTRY)
(MSCBCH)**

**Term-End Examination
December, 2025**

MBC-010 : RESEARCH METHODOLOGY

Time : 3 Hours

Maximum Marks : 100

Note : Answer any *five* questions. All questions carry equal marks.

1. (a) What is the meaning of research ?
Describe the need and purpose of research. 10
- (b) Differentiate between the following :
5+5
 - (i) Basic and Applied Research
 - (ii) Descriptive and Analytical Research

B-1836/MBC-010

P. T. O.

2. Write notes on the following : 5×4=20
- (a) Deliberate sampling
 - (b) Control and Treatment groups
 - (c) Data Analysis
 - (d) Review of Literature
3. (a) Give an overview of descriptive and analytic research design. 10
- (b) What is data collection ? Describe the types of data. 10
4. How will you write a research paper ? Explain different steps involved in the writing process. 20
5. (a) Explain ethical guidelines in animal research. 10
- (b) What is plagiarism ? How can it be detected ? 10
6. (a) Discuss the need of Institutional Ethics Committee. 10
- (b) Compare biosafety levels 2 and 4. 10

[3]

7. (a) Describe the issues in authorship during publication. 10
- (b) Explain the positive and negative effects of environmental release of GMPs. 10
8. (a) Give an overview of Copyright Act and Copyright Issues. 10
- (b) Explain the different types of patent. What are patent rights ? 10

x x x x x