

F 8371



Reg. No.....

Name.....

**M.Sc. (MEDICAL BIOCHEMISTRY) DEGREE EXAMINATION
JANUARY 2026**

Sixth Semester

Paper XVII—RESEARCH METHODOLOGY AND BIOMEDICAL STATISTICS

(2022 Admissions—Regular / 2019—21 Admissions—Supplementary / 2018 Admissions—
First Mercy Chance / 2017 Admissions—Second Mercy Chance and 2016 Admissions—
Final Mercy Chance)

Time : Three Hours

Maximum Marks : 80

All questions are compulsory.

Draw neat and labelled diagrams wherever necessary.

- I. Describe the key components of a research proposal in biomedical studies. Highlight their significance with examples. (20)
- II. Describe the steps in preparing a research design. Highlight the characteristics of good sampling design and its types. (10)
- III. Discuss the practice and significance of statistical methods in biological research. (10)
- IV. Write notes on the following :
 - 1 Ethics in scientific research.
 - 2 Standard deviation and mean absolute deviation.
 - 3 Importance of literature review.
 - 4 Chi square test.
 - 5 Confidence interval and tolerance limit.
 - 6 Project report.
 - 7 Correlation coefficient.
 - 8 Thesis.

(8 × 5 = 40)

