

2025

M.Sc. 1st Semester Examination
BIOMEDICAL LABORATORY
SCIENCE AND MANAGEMENT

Paper : BMLC404X0

[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. What is structured abstract?
2. What is meant by citation?
3. Why sampling is more important for data collection in an ideal research?
4. Differentiate between research methods and methodology.
5. State what is meant by copyright infringement.
6. Distinguish between primary and secondary sources of data.

P.T.O.

(2)

Group - B

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

7. What is meant by 'Original Research' article? What are the different sections of 'Original Research' article? 2+2
8. Write a brief note on plagiarism.
9. Discuss about the purpose of research proposal writing and its budget allotment. 2+2
10. In which scenario would you need to represent your data in (i) Venn diagrams, (ii) heat maps. 2+2
11. Compute variability ratio of two variables i.e., X and Y, with the following separate mean and standard deviation values :

Mean of X variable is 60.4 and S is 7.33 and mean of Y is 90 and S is 8.44.
12. Differentiate between descriptive statistics and inferential statistics in research.

Group - C

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

13. What is the importance of timeline in research? What is the conceptual framework for knowledge, attitude, and practice model? 2+6
14. Name the concerned national organization involved in controlling the ethics of Animal and Human Research.

(3)

Why should copyright be protected? What is meant by joint authorship? 2+3+3

15. Differentiate between random sampling and non-probability sampling with different types. Write the different basic steps conducted in case control studies.

4+4

16. State the guidance on plagiarism following the UGC regulations. How plagiarism can be avoided? 5+3

Internal Assessment - 10 marks
