

MD (Hom) Part-I – Paper 3

Subject: Research Methodology & Biostatistics

Time: 3 Hours

Max

Marks: 100

SET – C

Problem Based Question (20 marks)

1. A randomized controlled trial is planned to compare two homoeopathic medicines in allergic rhinitis.

- a) Define research problem and hypothesis.
- b) Identify dependent and independent variables.
- c) Select suitable quantitative research design.
- d) Explain sampling and randomization.
- e) Describe ethical and documentation requirements.

Long Answer Questions

(10x4 = 40 marks)

2. Explain plagiarism and methods of referencing.
3. Describe data collection techniques in qualitative research and their analysis.
4. Discuss mixed research design models and poster presentation in scientific communication.
5. Explain sampling errors and descriptive statistics.

Short Answer Questions

(5x 8 = 40 marks)

6. Types of research in homoeopathy.
7. Special case record.
8. Adverse event reporting.
9. Bias and chance.
10. Graphical presentation of data.
11. Probability laws.
12. Regression analysis.
13. AI tools for research writing.