

MD (Hom) Part-I – Paper 3

Subject: Research Methodology & Biostatistics

Time: 3 Hours

Max Marks:

100

SET – B

Problem Based Question (20 marks)

1. A postgraduate student wants to study “Patient satisfaction with homoeopathic treatment in chronic skin diseases”.

- a) Frame research question and objectives.
- b) Identify suitable qualitative and quantitative components.
- c) Select appropriate mixed research design with justification.
- d) Describe sampling method.
- e) List ethical safeguards.

Long Answer Questions

(10x4 = 40 marks)

2. Explain **sources of literature** and role of **reference management software** in research.
3. Discuss the philosophy, strengths, and limitations of **qualitative research**.
4. Describe **types of mixed research designs** and principles of scientific writing.
5. Explain sample size determination and probability distribution.

Short Answer Questions

(5x 8 = 40 marks)

6. Hahnemann as a researcher.
7. Evidence-based practice.
8. Institutional Ethics Committee.
9. Specificity and Sensitivity.
10. Questionnaire design.
11. Normal distribution.
12. Chi-square test.
13. Uses of G-Power software.