

**Research Methodology and Biostatistics
(Revised Scheme 5)****Q.P. CODE: 8001**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

Answer All The Questions**10 X 10 = 100 Marks**

1. Discuss various levels of measurement.
2. The state government has commissioned you to find the effectiveness of ferrum phos to improve anaemia among antenatal mothers.
 - a) How will you select the case and controls for the study?
 - b) Discuss the disadvantages of case-control studies.
3. Define hypothesis. Explain the steps involved in testing hypothesis.
4. Explain various types of errors while testing a single population proportion.
5. Discuss conflict of interest in any health research.
6. Define population and Sample for a research. Explain the characteristics of a good sample design.
7. Discuss non-probability sampling. Explain the disadvantages of non-probability sample in medical research.
8. Discuss Chi-square as a non-parameteric test with suitable example.
9. Discuss analysis of variance. Describe briefly the technique of analysis of variance for one-way (single factor).
10. List and explain various precaution a homoeopathic research should follow while writing a research report.

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