

ME

EXTC

Sem I

Choice
Based

(12)

(3 hours)

[Max Marks-80]

N.B. (1) Attempt any four questions out of six questions

(2) Assume any additional data if necessary and state it clearly

(3) Explain answers with neat sketches wherever necessary

1. a) Explain in detail the essentials of a good research report [10]
- b) Explain the statistics for Data Analysis and Reporting. [10]
2. a) Explain in brief the stages in Scientific Research process [10]
- b) Briefly describe various types of research [10]
3. a) What do you mean by 'Sample Design'? What points should be taken into consideration by a researcher in sample design for any research project? [10]
- b) Formulate a research problem, taking into consideration all the aspects [10]
4. a) Explain in details the characteristics of research [10]
- b) Enumerate the different methods of collecting data giving one example each [10]
5. a) State the objectives of research and illustrate the issues and problems in research [10]
- b) Explain validity testing for research and the ethical issues faced [10]
6. a) What do you understand by Research Design? State its types and significance [10]
- b) What are the Characteristics of a good hypothesis? Explain (i) Type I and Type II errors (ii) Level of Significance (iii) variables in Hypothesis [10]