

2 Hours

Total Marks: 50

Note: -

- 1. Attempt all questions.**
- 2. Draw neat labeled diagrams wherever necessary.**
- 3. Use of log tables and non-programmable calculators is allowed.**

- Q.1 Answer the following (Any 2 out of 4) 10**
- 1 What is the significance and importance of research?
 - 2 Discuss qualitative and quantitative research with examples
 - 3 Explain objective and Motivation in research.
 - 4 Explain any 2 types of research.
- Q.2 Answer the following (Any 2 out of 4) 10**
- 1 Explain and illustrate the Latin square design and Simple factorial design.
 - 2 What is feature of good design?
 - 3 Research design in exploratory studies must be flexible but in descriptive studies, it must minimize bias and Maximize reliability.' Discuss.
 - 4 What is need for research design?
- Q.3 Answer the following (Any 2 out of 4) 10**
- 1 What considerations should be taken into account when developing schedules for data collection?
 - 2 How do you manage time effectively during interviews to cover all relevant topics without rushing or losing focus?
 - 3 What methods are you considering for primary data collection?
 - 4 How did you ensure that the chosen data collection method would yield reliable and valid results for your study?
- Q.4 Answer the following (Any 2 out of 4) 10**
- 1 Explain three common types of research reports used in academic and professional settings?
 - 2 Explain the purpose and key characteristics of technical reports in research methodology?
 - 3 Discuss the importance of literature review reports in research methodology.
 - 4 Discuss the significance of clear and concise writing in a research report. Provide three strategies that researchers can employ to improve clarity and conciseness in their writing?
- Q.5 Short Notes on (Any 4 out of 8) 10**
1. Research approach
 2. Characteristics of research
 3. Complex factorial designs
 4. Two group simple randomized design.
 5. Holtzman Inkblot Test
 6. Define primary data and its objective?
 7. Characteristics of a good research report.
 8. Rewriting and polishing of report.