

2 Hours

Total Marks: 50

Note: -

- 1. Attempt all questions.**
- 2. Draw neat labeled diagrams wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1 Answer the following (Any 2) 10**
- 1 Define Research. Add a note on its significance.
 - 2 Enlist and explain the process of research.
 - 3 Compare and contrast Qualitative & Quantitative research methodology.
 - 4 Discuss the approach for research design in sciences.
- Q.2 Answer the following (Any 2) 10**
- 1 Explain: The pilot survey
 - 2 Define Secondary Data. Discuss any two approaches for secondary data collection.
 - 3 Discuss stratified random sampling.
 - 4 Write a note on Validity & reliability.
- Q.3 Answer the following (Any 2) 10**
- 1 What is the significance of maintenance of laboratory records for research?
 - 2 Archiving of observational data ensures ease of re-tracing, explain.
 - 3 How do you write SOP in research?
 - 4 Discuss any software used for data visualization.
- Q.4 Answer the following (Any 2) 10**
- 1 "Review of literature is an important component of research", justify.
 - 2 Discuss the skills of making PowerPoint presentations.
 - 3 What is an abstract? What are the components of an abstract?
 - 4 Research report writing is an art, explain.
- Q.5 Short Notes on (Any 2) 10**
1. Variables in research
 2. Primary data
 3. Statistical analysis of research data
 4. References