

Note:

1. All questions are compulsory with internal choice.
2. Draw neat diagrams wherever necessary.
3. Figures to the right indicate full marks.

Q.1 Answer the following (any four) (20)

- (a) Explain the meaning and objectives of research.
- (b) Narrate the process of research.
- (c) Describe the criteria of a good research.
- (d) Explain the meaning and need for research design.
- (e) Elaborate on the purpose of the research design.
- (f) Distinguish between research methodology and research method.

Q.2 Answer the following (any four) (20)

- (a) Describe some common methods for collecting primary data.
- (b) Define the terms 'Reliability' & 'Validity'. Explain its importance in a research tool.
- (c) State different types of sample designs.
- (d) Describe the types of research hypotheses.
- (e) List the main types of questionnaires in research.
- (f) Explain the characteristics of a good sample design.

Q.3 Answer the following (any four) (20)

- (a) What are the steps involved in writing a research proposal?
- (b) State the importance of ethics in scientific publishing.
- (c) How are design effective tables prepared?
- (d) What are the ethical issues in research?
- (e) Write a short note on a research proposal.
- (f) How is a research paper published?

Q.4 Answer the following (any five) (15)

- (a) State the types of research with suitable examples.
- (b) What are the steps of formulating a research problem?
- (c) Describe the types of research hypotheses.
- (d) Describe some common methods for collecting secondary data.
- (e) What is a manuscript? How is it submitted?
- (f) What is a scientific research paper?