

(2 Hours)

[Total Marks: 60]

- N. B.: (1) **All** questions are **compulsory**.
(2) Make **suitable assumptions** wherever necessary and **state the assumptions** made.
(3) Answers to the **same question** must be **written together**.
(4) Numbers to the **right** indicate **marks**.
(5) Draw **neat labelled diagrams** wherever **necessary**.
(6) Use of **Non-programmable** calculators is **allowed**.

Q1) Attempt any two:

(12 Marks)

- A) What do you mean by scientific method and explain.
- B) Define the following: Concept, Proposition, Hypothesis, Theory, Decision Support System.
- C) Define ethics and explain the importance of ethics in business research with suitable examples.
- D) Define Business Research. Discuss the considerations while determining the need to conduct a Business Research.

Q2) Attempt any two:

(12 marks)

- A) Explain the importance of Problem Definition and briefly explain the steps of Problem-definition Process.
- B) Compare the approaches of Qualitative and Quantitative Research.
- C) Discuss the advantages and disadvantages of a Focus Group Interview.
- D) Describe the common research objectives of secondary data study using appropriate examples.

Q3) Attempt any two:

(12 marks)

- A) What are the common objectives of cross sectional surveys?
- B) What measures will you adapt for increasing the response rates for mail questionnaire?
- C) State the advantages and disadvantages of observation studies.
- D) How to minimize demand characteristics? Explain with an example.

Q4) Attempt any two:

(12 marks)

- A) Define Validity. Discuss various components of construct validity.
- B) Discuss the types of Fixed-Alternative Questions stating their purpose. How do the Fixed-Alternative Questions differ from Open-Ended Response Questions.
- C) Describe the significance of Probability Sampling. Explain any 4 techniques of Probability Sampling stating their advantages and disadvantages.
- D) Compare discrete and continuous measures.

Q5) Attempt any two:

(12 marks)

- A) Write a note on quadrant analysis. Describe Type I and type II Errors.
- B) Describe the different types of hypothesis commonly tested for research. Differentiate between Type I and Type II errors.
- C) Explain the purpose of Factor Analysis and give its broad classification. How does Factor Analysis help for data reduction?
- D) What is Multivariate Statistical Data analysis? What are the steps of interpreting a multiple Regression Analysis results?
