Marks: 75   **Duration: 2½ hrs**

Note: 1. All questions are compulsory
2. Figures to the right indicate full marks
3. Illustrate answers wherever necessary

Q1. Answer ANY TWO of the following: **(15)**

A. Define Research and Explain the Objectives of Research.

B. Distinguish between Probability and Non-Probability sampling method.

C. Explain 'Hypothesis'. Discuss the Sources of Hypothesis.

Q2. Answer ANY TWO of the following: **(15)**

A. Discuss Observation method and its types as a source for collection of Primary Data.

B. Enumerate the External sources used for collecting secondary data.

C. Explain a 'Questionnaire'and the importance of Questionnaire?

Q3. Answer ANY TWO of the following: **(15)**

A. Elaborate the Types of Graphical presentations with illustrations.

B. Define 'Tabulation'. What are the Constituents of a good table?

C. According to a 1990, demographic report the average U. S. household spends $90 per day. Suppose you recently took random samples of 30 households and the results revealed a mean of $84.50. Suppose the standard deviation is known to be $14.50. Use Z test (two tailed) at (i) 1% (ii)5% (iii)10% level of significance to conclude that whether the average amount spent per day by U.S. household has decreased?

Q4. Answer ANY TWO of the following: **(15)**

A. What is 'Objectivity in Research'? Bring out the Constraints to objective research.

B. Elucidate the List of Ethical principles for conducting research.

C. Introduce 'Report'. Discuss the Essentials of good report.

Q5. CASE STUDY:

An autonomous management institute of repute conducts program aimed at training working executive in areas of management. These working executives either join these programs on their own or sponsored by company they work for. Over a period of time, the enrolment of these programs is on decline. The institute wants to arrest these problems.

a. Discuss research problem in the above case and formulate research objective
   (at least four)   (05)

b. What could be the variables and possible hypothesis under study?   (04)

c. Design a questionnaire to collect data for the research objective formulated? (06)

---xxx---ALL THE BEST---xxx---