

APRIL/MAY 2019

**MCM34 — RESEARCH METHODOLOGY**

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) State the different types of research and explain them.

Or

- (b) Describe how the identification and the statement of problem are made.

2. (a) Critically evaluate the different methods of probability sampling technique.

Or

- (b) Write a short note on 'Likert type scale'. With proper examples.

3. (a) Narrate the characteristics of a good table.

Or

- (b) Explain the validity of the measures mean and standard deviations.

4. (a) A company has the sales pattern (in units) during 1994 to 2002, as shown the following :
- Fit a linear regression for the data.
  - Compute the sales forecast for the year 2006

Year :            1994 1995 1996 1997 1998

Sales (in lakhs of units) :    10    12    15    27    33

Year :            1999 2000 2001 2002

Sales (in lakhs of units) :    38    44    49    60

Or .

- What is factor loadings? Also explain the concept of factor rotation.
5. (a) What are the types of report? Explain them in brief.

Or .

- Explain the procedure of entering data in SPSS.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Describe the different steps involved in a research process.
7. Enumerate the different methods of collecting data.

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8. Explain different types of analysis of data, pointing out the significance of each.
9. The results of survey on the sales of a product (Y) as a function of time period (X) are summarized below :

	X	Y
Mean	25	150
Standard deviation	2	8
Co-efficient of correlation	0.9	

- Fit the regression line of Y on X and estimate the value of Y when X is 10
  - Fit regression line of X on Y and estimates the value of X when Y is 96.
10. Discuss the guideline for reviewing the draft of a report.

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