

M. SC. (APPLIED STATISTICS)
(MSCAST)

Term-End Examination

December, 2025

MST-023 : RESEARCH METHODOLOGY

Time : 3 Hours

Maximum Marks : 50

Note : (i) *Question No. 1 is compulsory.*

(ii) *Attempt any **four** questions from the remaining Question Nos. 2 to 6.*

(iii) *Use of scientific calculator (non-programmable) is allowed.*

(iv) *Symbols have their usual meanings.*

1. State whether the following statements are True or False. Give reasons in support of your answers : 5×2=10

- (a) Research is any organized inquiry carried out to provide information for solving problem.
 - (b) The researcher should never report flows in procedural design and estimate their effect on the findings.
 - (c) In the research process, a management dilemma triggers the need for a decision.
 - (d) Non-response error occurs, when you cannot locate the person or could not encourage the respondent to participate in answering.
 - (e) Adequate analysis is the least difficult phase of research for the novice.
2. (a) Differentiate between Research Methods and Research Methodology. 5
- (b) Explain what is a survey. Also write the merits and demerits of survey method of data collection. 5

3. (a) What is data collection ? Discuss various methods of collection of primary data. 5
- (b) Discuss Analysis of Variance (ANOVA). 5
4. (a) Explain what is data processing. Discuss the points to be observed while processing data. 5
- (b) Discuss do's while writing a research paper. 5
5. (a) Discuss the uses and limitations of citation indexes. 5
- (b) Discuss accident plagiarism with suitable examples. 5
6. Write short notes on any *two* of the following : 5+5
- (a) The techniques of writing report
- (b) Characteristics of a good research report
- (c) Bibliography and its importance in context of research report

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