

M. SC. (APPLIED STATISTICS)

(MSCAST)

Term-End Examination

June, 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 : 2×5=10

- (a) Mixed methods of research is not currently used in the field of criminology and criminal justice.
 - (b) Quantitative research designs are geared towards statistical associations and 'predictions'.
 - (c) Personal interviews are more common with qualitative research, and survey research is more common with quantitative research.
 - (d) All independent variables can be manipulated by the researcher.
 - (e) The validity and reliability of the data should be checked occasionally.
2. (a) Describe experimental approach. 5
- (b) Discuss some methods of collecting secondary data. What precautions should be observed when collecting secondary data ? 5
3. (a) Discuss samples and sampling distribution. 5

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- (b) Discuss the criteria of good measurement. 5
- 4. (a) Discuss various points of presentation of research paper. 8
- (b) Define integrity of the research process. 2
- 5. (a) Explain in detail about conference proceedings and significance of conference proceedings. 5
- (b) Why is it important to select a suitable journal or platform for publishing your research ? 5
- 6. (a) Explain descriptive research and co-relational research. 5
- (b) Explain the main points of data processing. 5

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