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MEV-019

**MASTER OF SCIENCE
(ENVIRONMENTAL SCIENCE)
(MSCENV)**

Term-End Examination

June, 2026

**MEV-019 : RESEARCH METHODOLOGY FOR
ENVIRONMENTAL SCIENCE**

Time : 3 Hours

Maximum Marks : 100

Note : (i) *Attempt any **ten** questions.*

(ii) *All questions carry equal marks.*

1. Explain the concept of standard error and
Central Limit Theorem. 10

2. Write short notes on the following : 5+5
- (a) Student's t-distribution
 - (b) Region of rejection
3. Write short notes on the following : 5+5
- (a) Peer Review
 - (b) Plagiarism
4. Write short notes on the following : 5+5
- (a) Intellectual Property Rights
 - (b) Copyrights
5. Write short notes on the following : 5+5
- (a) Data tabulation
 - (b) F-distribution
6. What is correlation ? Explain the characteristics of Karl Pearson's coefficient of correlation. 2+8

7. Explain the types and approaches of research. 10
8. Explain the significance of formulating research questions, objectives and hypothesis with examples. 10
9. What is experimental design ? Explain the principle of experimental design. 2+8
10. Explain the different methods of data collection. 10
11. What are the measures of central tendency ?
Explain the characteristic features of different types of measures of central tendency. 2+8
12. Explain the characteristics of bar diagram and pie chart. 10

13. Write short notes on the following : 5+5

(a) Components of Geographical
Information System

(b) Frequency distribution

14. Explain the role of statistics in
environmental science. 10

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