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MEV-019

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

Term-End Examination

December, 2025

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

Time : 3 Hours

Maximum Marks : 100

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

(ii) All questions carry equal marks.

1. Explain the ethical issues related to research publication, reproducibility and accountability. 10
2. What is regression ? Explain the properties of regression coefficients. 2+8
3. Write short notes on the following : 5+5
 - (a) TRIPS
 - (b) Analysis of Variance
4. Write short notes on the following : 5+5
 - (a) Chi-square distribution
 - (b) Type I and Type II errors
5. Explain the structure of a research paper. 10
6. Explain the factors that influence the selection of a research topic with examples. 10

7. What is research design ? Explain the need and principles of research design. 10
8. What is remote sensing ? Explain the different types of remote sensing. 2+8
9. Explain the application of geospatial technologies in mapping and monitoring of natural resources. 10
10. What are measures of dispersion ? Explain the characteristics of different types of dispersion. 2+8
11. What is correlation ? Explain the Spearman's rank correlation coefficient. 2+8
12. What is sampling design ? Explain the different types of sampling design. 2+8

13. What is data tabulation ? Explain the significance of diagrammatic representation of data. 2+8

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

(a) Descriptive Research

(b) Applied Research

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