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MEV-019

**M. SC. (ENVIRONMENTAL
SCIENCE) (MSCENV)**

Term-End Examination

June, 2025

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

Time : 3 Hours

Maximum Marks : 100

Note : Answer any ***ten*** questions. All questions
carry equal marks.

1. Write short notes on the following : 5+5=10

(a) Type-I and Type-II errors

(b) Intellectual Property Rights

2. What is Regression ? Explain the properties of regression coefficient. 10
- 3, Write short notes on the following : 5+5=10
- (a) Student's *t*-distribution
 - (b) Analysis of Variance
4. Explain the outline of a research paper. 10
5. Write short notes on the following : 5+5=10
- (a) Plagiarism
 - (b) Peer review
6. What are the measures of dispersion ?
- Explain the properties of different measures of dispersion. 10

7. What is correlation ? Explain the properties of Karl Pearson's coefficient of correlation. 10
8. Discuss the application of GIS in mapping and monitoring urban environment. 10
9. What is frequency distribution ? Explain the features of bar diagram and pie chart. 10
10. What is Research Design ? Explain the different types of research design. 10
11. Explain the different methods of data collection. 10
12. Write short notes on the following : 5+5=10
 - (a) Quantitative research
 - (b) Qualitative research

13. What is Statistics ? Explain the role of

Statistics in Environmental Science. 10

14. What is scatter diagram ? Explain the

application of scatter diagram in correlation

analysis. 10

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