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MEV-019

M. SC. (ENVIRONMENTAL SCIENCE)

(MSCENV)

Term-End Examination

December, 2024

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

Time : 3 Hours

Maximum Marks : 100

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

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

(a) Descriptive Research

(b) Analytical Research

2. Explain the factors that influence the selection of research topic with examples. 10
3. What is research design ? Explain the principles involved in research design. 10
4. What is sampling design ? Explain the different types of sampling designs. 10
5. What is data tabulation ? Explain the principle and importance of data tabulation. 10
6. What is correlation ? Explain the Spearman's rank correlation coefficient. 10
7. Explain the application of Geographical Information System (GIS) in Natural Resource Management (NRM). 10

8. What are the measures of central tendency ?

Explain the features of arithmetic mean and median. 10

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

(a) Central Limit Theorem

(b) F-distribution

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

(a) Region of rejection

(b) Standard error

11. Explain the structure of a research paper. 10

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

(a) Chi-square distribution

(b) Intellectual Property Rights

13. Explain the ethical issues associated with research publication, reproducibility and accountability. 10

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

(a) Hypothesis testing

(b) Analysis of Variance

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