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MEV-019

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

Term-End Examination

December, 2023

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

Time : 3 Hours

Maximum Marks : 100

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

1. Explain the types and approaches of research. 10
2. Explain the importance of formulating research questions, objective and hypothesis. 10
3. Explain any *two* types of research designs in detail with suitable examples. 10
4. Explain both probability and non-probability sampling procedures in detail. 10

P. T. O.

5. Write short notes on the following : 5+5
- (a) Frequency distribution
 - (b) Data tabulation
6. What is remote sensing ? Explain the different types of remote sensing. 10
7. Discuss the applications of geospatial technologies in natural resource management with examples. 10
8. What are the measures of central tendency ? Explain the features of different types of measures of central tendency. 10
9. Define correlation. Discuss the different types of correlation. 10
10. Explain the concept of regression. Explain the properties of regression coefficients. 10
11. Write short notes on the following : 5+5
- (a) Chi-square distribution
 - (b) Student's *t*-distribution

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12. Write short notes on the following : 5+5
- (a) Analysis of Variance
 - (b) Plagiarism
13. Explain the structure of a research paper. 10
14. Write short notes on the following : 5+5
- (a) Peer review
 - (b) Copyrights