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MEV-019

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

Term-End Examination

June, 2024

**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 various factors that influence the selection of research topic. 10

P. T. O.

2. What is Research Design ? Why do we need to have research design in environmental studies research ? Explain. 10
3. Explain the different methods of data collection. 10
4. What is the significance of diagrammatic representation of data ? Explain the features of bar diagram and pie diagram. 10
5. Write short notes on the following : 5+5=10
 - (a) Advantages and limitations of remote sensing
 - (b) Geographic Information System
6. Discuss the application of geospatial technologies in mapping and monitoring of urban environment. 10

7. What are the measures of dispersion ? Explain the characteristic features of different types of measures of dispersion. 10
8. Explain the Karl Pearson's coefficient of correlation. 10
9. Explain the concept of regression. Explain the properties of regression coefficients. 10
10. Explain the concept of standard error and central limit theorem. 10
11. Write short notes on the following : 5+5=10
- (a) Region of rejection
 - (b) Type-I and Type-II error
12. Write short notes on the following : 5+5=10
- (a) Hypothesis testing

(b) Trade related aspects of Intellectual
Property Rights

13. Explain the ethical issues related to research
publication and reproducibility. 10
14. What is Data Tabulation ? Explain the
objectives of data tabulation with examples. 10