

**MASTER OF SCIENCE  
(ENVIRONMENTAL SCIENCE)  
(MSCENV)  
Term-End Examination  
December, 2022**

**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) Basic Research
  - (b) Applied Research
  
2. Explain the significance of formulating research questions, objectives and hypothesis. 10
  
3. What is data tabulation ? Explain the objectives of data tabulation. 2+8=10
  
4. What is research design ? Explain the principles of research design. 2+8=10
  
5. Explain the role of remote sensing in data collection. 10

6. Discuss the importance of statistics in environmental research. 10
7. Explain the outline of a research paper. 10
8. What are the measures of central tendency ? Explain the different measures of central tendency. 2+8=10
9. What is correlation ? Explain the different types of correlation. 2+8=10
10. What is sampling distribution ? Explain the sampling distribution of mean. 2+8=10
11. What is a hypothesis ? Explain the significance of null and alternative hypothesis. 2+8=10
12. What is analysis of variance ? Explain the significance of analysis of variance (ANOVA). 2+8=10
13. Write short notes on the following : 5+5=10
- (a) Research Ethics
  - (b) Citation
14. Write short notes on the following : 5+5=10
- (a) Peer Review
  - (b) Intellectual Property Rights
-