

M.Sc. ENVIRONMENTAL SCIENCE
THIRD SEMESTER
RESEARCH METHODOLOGY AND ENVIRONMENTAL STATISTICS
MEV-302
[USE OMR FOR OBJECTIVE PART]

SET
A

Duration: 1.30 hrs.

Full Marks: 35

Time: 15 min.

(Objective)

Marks: 10

Choose the correct answer from the following:

1X10=10

1. Which of the following best defines research?
 - a. Gathering information from books
 - b. A systematic investigation to gain new knowledge
 - c. Making guesses about a problem
 - d. Copying information from the internet
2. What is non-probability sampling?
 - a. Every individual in the population has an equal chance of being selected
 - b. Sampling based on specific characteristics
 - c. Sampling without considering the probability of inclusion
 - d. Ensuring representation of all subgroups
3. The research stream of immediate application is
 - a. Survey research
 - b. Action research
 - c. Experimental research
 - d. Pure research
4. Which of the following is an initial mandatory requirement for pursuing research?
 - a. Developing a research design
 - b. Deciding about the data analysis procedure
 - c. Formulating a research question
 - d. Formulating a research hypothesis
5. Which of the following is a research tool?
 - a. Graph
 - b. Illustration
 - c. Diagram
 - d. Questionnaire
6. The format of thesis writing is the same as in _____.
 - a. Writing of seminar representation
 - b. Preparation of research paper/article
 - c. A research dissertation
 - d. Presenting a workshop/conference paper
7. A research problem is feasible only when _____.
 - a. It has utility and relevance
 - b. It is new and adds something to knowledge

- c. It is researchable
d. All of the above
8. Which one of the following is not considered as plagiarism?
a. Make use of the work of another and misrepresent it as your own
b. Drawing content from the work of another without acknowledging the source
c. Paraphrasing too closely to the original text
d. Drawing content from another work and adapting it with due acknowledgement.
9. Review of literature in research helps in
a. Avoiding duplication of work
b. Understanding gaps in knowledge
c. Building a theoretical background
d. All of above
10. In research, reliability means
a. Accuracy of measurement
b. Ability to produce consistent results over time
c. Speed of research completion
d. Ability to apply research anywhere

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(Descriptive)

Time : 1 hrs. 15 min.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

1. Write about meaning and importance of survey of literature. 5
2. What are the objectives of research? Define Descriptive research, Fundamental research, Action research. 4+6=10
3. Explain various sampling types and procedures considered in survey? 10
4. Differentiate between basic research and applied research. Explain their importance with suitable examples. 10
5. Write short notes on (any two): 5+5=10
 - a) Characteristics of qualitative and quantitative data
 - b) Measures of central tendency
 - c) Non probability sampling methods
 - d) Principal Component analysis

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