

M.Sc. ENVIRONMENTAL SCIENCE
Third Semester
RESEARCH METHODOLOGY
(MEV - 301)

Duration: 3Hrs.

Full Marks: 70

Part-A (Objective) =20
Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

Answer any four from Question no. 2 to 8
Question no. 1 is compulsory.

1. Define research. Discuss about the characteristics of scientific research. What are the steps for conducting a research? [1+4+5=10]
2. What is research design? Enumerate the need of research design. Write the different phases of research design. [1+3+6=10]
3. Categorize hypothesis. State the difficulties in formulating the hypothesis. Explicate their importance. [5+3+2=10]
4. Define population and sample. Classify probability sampling. Write the pros and cons of this sampling. [2+4+4=10]
5. How many types of question are there in the questionnaire survey? How this survey is performed? Write the advantages and disadvantages of this survey. [5+3+2=10]
6. State the different types of interview. Discuss about the process of interview. Mention the merits and demerits of the interview. [5+2+3=10]
7. Define observation. Classify observation. Specify the process of observation. [1+5+4=10]
8. What do you mean by ethics? State the general principles of ethics. [2+8=10]

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Duration: 20 minutes

Marks – 20

(PART A - Objective Type)

I. Choose the correct answer:

1×20=20

- (i) Objectives of research study technically includes -
(a) Diagnostic study (b) Quantitative study
(c) Qualitative study (d) None
- (ii) In peer review process, the research paper is verified by-
(a) Reviewer (b) Editor
(c) Publisher (d) All
- (iii) Plagiarism is -
(a) Copying other's idea (b) Duplicating other's idea
(c) Stealing other's idea (d) All
- (iv) Classification scale questions are -
(a) Nominal question (b) Ordinal question
(c) Interval question (d) Direct question
- (v) The aim of research is to put emphasis on accomplishment related to -
(a) What (b) How
(c) When (d) Why
- (vi) Evaluation research is included under -
(a) Applied research (b) Basic research
(c) Quantitative research (d) None
- (vii) Research design includes -
(a) Skill (b) Variable
(c) Budget (d) All
- (viii) Working hypothesis is based on -
(a) Assumption (b) Theories
(c) Data (d) None
- (ix) According to Horton and Hunt, research should be -
(a) Logical (b) Significant
(c) Replicated (d) All

- (x) Purposive sampling is also known as -
(a) Accidental sampling (b) Reason sampling
(c) Judgment sampling (d) Aptitude sampling
- (xi) Secondary data could be obtained from -
(a) Interview (b) Correspondent
(c) Published sources (d) Investigation
- (xii) In which sampling, the respondent gives the names of other respondent to be studied?
(a) Volunteer sampling (b) Snowball sampling
(c) Purposive sampling (d) Quota sampling
- (xiii) In open ended question, the respondent provides answer according to -
(a) Researcher (b) Own view
(c) Pressure (d) None
- (xiv) Primary function of the hypothesis is to make -
(a) Social policy (b) Changes
(c) Laws (d) Theory
- (xv) In multi-stage sampling, which sample is finally selected?
(a) First (b) Middle
(c) Last (d) Random
- (xvi) Naïve observations are-
(a) Systematic (b) Unstructured
(c) Participative (d) None
- (xvii) Aim and objectives of the research should be-
(a) Interrelated (b) Ambitious
(c) Repeated (d) Contradictory
- (xviii) Empirical test by scientific way deals with-
(a) Hypothesis (b) Variable
(c) Evidence (d) Concept
- (xix) Stratified random sampling entails-
(a) Sub-sample (b) Tipper's table
(c) Computers (d) All
- (xx) Operational design deals with -
(a) Item selection (b) Observation
(c) Statistics (d) Techniques
