

REV-01
MEV/01/05

2023/08

M.Sc. ENVIRONMENTAL Sc.
THIRD SEMESTER
RESEARCH METHODOLOGY
MEV – 301 [SPECIAL REPEAT]
[USE OMR FOR OBJECTIVE PART]

**SET
A**

Duration : 3 hrs.

Full Marks : 70

Time: 30 min.

Marks: 20

(Objective)

Choose the correct answer from the following:

1X20=20

1. What is the name of conceptual framework in which research is carried out?
 - a. Research hypothesis
 - b. Synopsis
 - c. Research design
 - d. Research paradigm
2. Which of the following options are the main tasks of research in modern society?
 - a. To learn new things
 - b. To keep pace with the advancement in knowledge
 - c. To systematically examine and critically analyze the investigations/sources with the objective
 - d. All of above
3. Among these, which sampling is based on equal probability?
 - a. Simple random sampling
 - b. Stratified random sampling
 - c. Systematic sampling
 - d. None of the above
4. Who can successfully conduct Research?
 - a. Someone who is a hard worker
 - b. Possesses post-graduation degree
 - c. Has studied research methodology
 - d. Possesses thinking and reasoning ability
5. Literature is a
 - a. Written record
 - b. Published record
 - c. Unpublished record
 - d. All of above
6. Which of the following is not the method of Research?
 - a. Historical
 - b. Observational
 - c. Philosophical
 - d. None of above
7. It only contains sources that author has directly cited in his/her publication is
 - a. Bibliography
 - b. Reference
 - c. Both a and b
 - d. None of the above
8. A survey of scholarly sources such as books, journal articles, theses etc. related to specific topic or research question is,
 - a. Abstract
 - b. Literature review
 - c. Methodology
 - d. Introduction

9. Action-research can be understood as _____
 - a. A longitudinal research
 - b. An applied research
 - c. Research to solve specific problem
 - d. All of above
10. How to judge the depth of any research?
 - a. By research title
 - b. By research duration
 - c. By research objectives
 - d. By total expenditure on research
11. Which of the followings is the measure of Dispersion
 - a. Mean
 - b. Mode
 - c. Ratio
 - d. Standard Error
12. Research problem is selected from the standpoint of
 - a. Social relevance
 - b. Financial support
 - c. Researcher's interest
 - d. All of above
13. While using the P value hypothesis testing, the maximum value that null hypothesis is rejected if the P value is
 - a. Less than 0.1
 - b. Higher than 0.1
 - c. Less than 0.05
 - d. Higher than 0.05
14. Which of the followings hypo testing methods involve the prediction of the two testing subjects
 - a. Traditional
 - b. P value
 - c. Confidence of interval
 - d. R square
15. Which of the following is not a data processing software
 - a. GIS
 - b. SPSS
 - c. Spreadsheet
 - d. Linux
16. What is the name of the conceptual framework in which the research is carried out?
 - a. Research hypothesis
 - b. Synopsis
 - c. Research paradigm
 - d. Research design
17. A routine process designed to ensure that reported values meet the quality goals of the environmental data operations
 - a. Data Validation
 - b. Data Cleaning
 - c. Data coding
 - d. All of the Above
18. Sample is regarded as a subset of?
 - a. Data
 - b. Set
 - c. Distribution
 - d. Population
19. "Research design is the blue print of research". This statement was given by
 - a. Berger
 - b. Champion
 - c. Manheim
 - d. All of above
20. How is random sampling helpful?
 - a. Reasonably accurate
 - b. Easy method of data collection
 - c. Free from personal biases
 - d. All of above

(Descriptive)

Time : 2 hrs. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Discuss briefly different structural elements of a dissertation and thesis. | 10 |
| 2. What do you mean by research? What are the objectives of research? Discuss different types of research. | 2+2+6
=10 |
| 3. Differentiate between questionnaire & interview schedule. What are the steps for construction of a questionnaire. | 3+7=10 |
| 4. Categorize hypothesis. Explain the importance of hypothesis testing. | 5+5=10 |
| 5. What is data processing? Explain the importance of data processing and the different steps in data processing. | 2+2+6
=10 |
| 6. Explain variables (continuous and discrete) with examples in each case. Describe the different types of tables that can be used in data presentation | 4+6=10 |
| 7. What are sample, population and sampling in research? Define probability and non-probability sampling? | 10 |
| 8. Write short notes on (any two):
(i) Importance of review of literature
(i) Primary data and secondary data
(ii) References and Bibliography | 5+5=10 |

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