

M. Sc DEGREE END SEMESTER EXAMINATION - OCT. 2020 : FEBRUARY 2021**SEMESTER 1 : ENVIRONMENTAL SCIENCE****COURSE : 16P1ENVT03 : RESEARCH METHODOLOGY - II***(For Regular - 2020 Admission and Supplementary - 2016/2017/2018/2019 Admissions)*

Time : Three Hours

Max. Marks: 75

PART A**Answer any 10 (2 marks each)**

1. Differentiate empiricism and rationalism
2. Differentiate basic and applied research
3. Give an account of the steps of scientific methods in research.
4. What is experimental unit.
5. What is a population?
6. Comment on 'Sampling errors'.
7. What is nonparticipant observation?
8. Differentiate primary and secondary data.
9. What is meant by unstructured observation?
10. What is reference card?
11. What are tertiary sources? How are they classified?
12. Name the three main functions of search engines.

(2 x 10 = 20)**PART B****Answer any 5 (5 marks each)**

13. "Research design in exploratory studies must be flexible but in descriptive studies, it must maximize reliability and minimize bias" Discuss
14. How do you formulate a research objective?
15. Outline the principal advantages of sampling.
16. What are the essentials of a good questionnaire?
17. Discuss the limitations of case study.
18. Explain briefly the different ways of reporting of research findings
19. What is the significance of TED talks?
20. Describe the three 'R' approach followed by researchers while using animals in research.

(5 x 5 = 25)**PART C****Answer any 2 (15 marks each)**

21. Comment on the importance of knowing how research is done.
22. Write the importance of sampling. Enumerate and discuss the types of sampling design.
23. Differentiate thesis and dissertation. Explain the preparation of thesis and dissertation.
24. Describe case study method in research.

(15 x 2 = 30)