

M. Sc. DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023**SEMESTER 1 : ENVIRONMENTAL SCIENCE****COURSE : 21P1EVST03 : RESEARCH METHODOLOGY II***(For Regular - 2023 Admission and Improvement/Supplementary -2022/2021 Admissions)*

Duration : Three Hours

Max. Weights: 30

PART A**Answer any 8 questions****Weight: 1**

1. What is the importance of the research ethical committee? (A)
 2. How do you write a good literature review? (An, CO 4)
 3. What is a sample? (U, CO 2, CO 3)
 4. Comment on conceptual research (U, CO 3)
 5. What are the three type of information? (An, CO 1, CO 2)
 6. Evaluate the significance of colloquium for researchers. (R, CO 5)
 7. Differentiate primary and secondary data. (An, CO 3, CO 4)
 8. What are the types of research? (U, CO 3)
 9. Comment on structured observation. (R, CO 3, CO 4)
 10. What is extraneous variable? (U, CO 4)
- (1 x 8 = 8)**

PART B**Answer any 6 questions****Weights: 2**

11. Add a note on fundamental research. (An, CO 3)
 12. What are the merits of data collection through questionnaires? (U, CO 3, CO 4)
 13. Enumerate the important Research Designs with a brief explanations. (An, CO 4)
 14. What is prediction system? (A)
 15. Enumerate the important concepts relating to research design. (E, CO 4)
 16. Enumerate the importance of knowledge in life. (U, CO 1, CO 2)
 17. Explain Intellectual Property Rights. (U)
 18. Discuss the errors of sampling. (An, CO 2, CO 3)
- (2 x 6 = 12)**

PART C**Answer any 2 questions****Weights: 5**

19. What is Experimental design? Explain in detail the types of Experimental design. (An, CO 4)
20. Differentiate thesis and dissertation. Explain the preparation of thesis and dissertation. (An, CO 5)

21. What is a critical review? How long is a review of literature? (An, CO 4)
22. Explain case study method. (U)
- (5 x 2 = 10)**

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Understand the types and basic concepts of research and its methodologies	U	5, 16	3
CO 2	Identify apt and relevant research topics	Cr	3, 5, 16, 18	6
CO 3	Demonstrate research process	An	3, 4, 7, 8, 9, 11, 12, 18	11
CO 4	Define suitable research problem and its parameters	R	2, 7, 9, 10, 12, 13, 15, 19, 21	20
CO 5	Design, organize and conduct research (advanced project) appropriately	Cr	6, 20	6

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;