

Reg. No

Name

22P1043

M. Sc. DEGREE END SEMESTER EXAMINATION : OCTOBER 2022

SEMESTER 1 : ENVIRONMENTAL SCIENCE

COURSE : 21P1EVST03 : RESEARCH METHODOLOGY II

(For Regular - 2022 Admission and Supplementary - 2021 Admission)

Duration : Three Hours

Max. Weights: 30

PART A

Answer any 8 questions

Weight: 1

1. How is Prof. R.A. Fisher's name associated in research methodology? (R, CO 4)
 2. Comment on unstructured observation. (U, CO 3, CO 4)
 3. What is a population? (R, CO 2, CO 3)
 4. What is meant by conceptual research? (U, CO 3)
 5. Comment on Null hypothesis and Alternative hypothesis. (U, CO 4)
 6. Comment on structured observation. (R, CO 3, CO 4)
 7. Define scientific investigation. (U, CO 2)
 8. Write notes on colloquium. (U, CO 5)
 9. Give an account of the steps of scientific methods in research. (U, CO 3)
 10. How do reach findings help society? (E)
- (1 x 8 = 8)**

PART B

Answer any 6 questions

Weights: 2

11. Enumerate the importance of knowledge in life. (U, CO 1, CO 2)
 12. Enumerate the important concepts relating to research design. (E, CO 4)
 13. Distinguish between dependent and independent variables. (R, CO 4)
 14. Explain the advantages of case study. (A, CO 3, CO 4)
 15. How do you select a research question? (An, CO 3)
 16. Write notes on systematic sampling. (A, CO 2, CO 3)
 17. What are the points to be taken care of while using animals in research? (A, CO 5)
 18. Add a note on fundamental research. (An, CO 3)
- (2 x 6 = 12)**

PART C
Answer any 2 questions

Weights: 5

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| 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. | Discuss the main aspects of a questionnaire. Explain in detail. | (U, CO 3, CO 4) |
| 22. | Explain the need for a hypothesis in research. | (E, CO 4)
(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	11	2
CO 2	Identify apt and relevant research topics	Cr	3, 7, 11, 16	6
CO 3	Demonstrate research process	An	2, 3, 4, 6, 9, 14, 15, 16, 18, 21	18
CO 4	Define suitable research problem and its parameters	R	1, 2, 5, 6, 12, 13, 14, 19, 21, 22	25
CO 5	Design, organize and conduct research (advanced project) appropriately	Cr	8, 17, 20	8

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