

M.Sc. DEGREE END SEMESTER EXAMINATION- NOVEMBER 2025**SEMESTER 1 : ENVIRONMENTAL SCIENCE****COURSE : 24P1EVST02 : RESEARCH METHODOLOGY I***(For Regular - 2025 Admission and Improvement/Supplementary 2024 Admission)*

Time : Three Hours

Max. Weights: 30

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

1. What are microcomputers? How are they classified? (U)
2. Define DBMS. Give examples. (U)
3. What do you mean by Operating System? (A)
4. Define ANOVA and draw ANOVA table for one variable (U)
5. Define 'Non-probability sampling'. (U)
6. Define regression analysis. (U)
7. Define Scatter diagram? (U)
8. Explain the concept of central tendency. (U)
9. Define the following: (A)
1. Router 2. Switch 3. Hub 4. Bridge 5. Modem
10. Define Normal distribution. (U)

(1 x 8 = 8)**PART B****Answer any 6 questions****Weights: 2**

11. What are different methods of collecting primary data? (U)
12. State empirical relation between various measures of dispersion and the Importance of standard deviation, (U)
13. Define Karl Pearson's coefficient of correlation. What is it intended to measure? (U)
14. Explain the features of MS-Excel. (a) "Best Fit Method"(b) AutoFill (A)
15. Define the following: (U)
1. Antivirus
2. Firewall
16. Explain the construction and structure of a life table. (U)
17. Define ERP. Name some industries using ERP (U)
18. Define (1) Test statistics (2) significance level (3) critical region (4) test criterion (U)

(2 x 6 = 12)**PART C****Answer any 2 questions****Weights: 5**

19. What are the common output devices. Give examples and explain each. (A)
20. Among 50 rural children 20 were malnourished and among 50 urban children 10 were malnourished. Test whether malnutrition and area of residence are associated?(table value for 5% level of significance is 3.841) (U)

21. Explain various models of population growth .Emphasize on the Lotka-Voltera Model.

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22. Elaborate on different graphical methods used for the presentation and analysis of data.

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(5 x 2 = 10)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
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Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;