

**M.Sc. DEGREE END SEMESTER EXAMINATION- NOVEMBER 2025****SEMESTER 1 : ZOOLOGY****COURSE : 24P1ZOOT04 : BIOSTATISTICS, DIGITAL ANALYTICS AND RESEARCH METHODOLOGY***(For Regular - 2025 Admission and Improvement / Supplementary 2024 Admission)*

Time : Three Hours

Max. Weights: 30

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

1. Define extension communication (R, CO 8)
2. What is data? (R, CO 1)
3. Differentiate null hypothesis and alternate hypothesis in the context of research (An, CO 7)
4. How to perform MODE function in SPSS (U, CO 4)
5. What is F test? (U, CO 1, CO 3)
6. Describe Berger- parker index (U)
7. What is a design right? (R, CO 8)
8. Name two graphic methods used in Regression Analysis. (U, CO 2, CO 3)
9. What is ANOVA? (U, CO 1, CO 3)
10. Define workshop in the context of scientific communication (R, CO 8)  
**(1 x 8 = 8)**

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

11. Write a short note on SPSS ? (U)
12. Write a short note on parametric and non parametric test. (U)
13. Explain dominance indexes. (U)
14. Find standard deviation

Size of the item	6	7	8	9	10	11	12
Frequency	3	6	9	13	8	5	4

15. Comment on the role of 'Debate' as an effective tool in scientific communication (U, CO 8)
16. Discuss the basic principles of experimental designs (U, CO 7)
17. Find the Mean

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of students	10	18	20	26	30	28	18

18. Explain the different types of probability sampling (An, CO 7)  
**(2 x 6 = 12)**

**PART C**  
**Answer any 2 questions**

**Weights: 5**

19. Write an essay on MS office (U, CO 4)

20. Find regression equations (A, CO 2, CO 3)

X	60	20	10	40	80
Y	90	60	50	80	120

21. Discuss the various types of research (An, CO 6)

22. What is correlation? What are the major types in it? (U, CO 2)  
**(5 x 2 = 10)**

**OBE: Questions to Course Outcome Mapping**

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Relate basics of statistics and measures of central tendency and dispersion	U	2, 5, 9, 16	5
CO 2	Interpret correlation and regression analysis	U	8, 16, 19, 21	13
CO 3	Solve probability, hypothesis testing and vital statistics	U	5, 8, 9, 13, 19	10
CO 4	Analyse the basics of computer application and software	U	4, 18	6
CO 6	Perceive the basic concepts of research	U	20	5
CO 7	Summarize research formulation and design	U	3, 15, 17	5
CO 8	Outline the principles and practices of information documentation and communication	U	1, 7, 10, 14	5

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