QP CODE: 24045388

24045388

Reg No : .....

Name : .....

M.Sc DEGREE (CSS) EXAMINATION, DECEMBER 2024

First Semester

M.Sc ZOOLOGY

CORE - ZL010104 - BIOSTATISTICS AND RESEARCH METHODOLOGY

2019 ADMISSION ONWARDS

8EE7A937

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Explain range with its merits and demerits.
2. Define regression equation.
3. What is the basic principle of ANOVA?
4. What is mathematical modelling? Give a few applications.
5. Comment on sample designs.
6. Mention the criteria for selecting a problem for research.
7. Mention the important components in a research plan.
8. What is h-index?
9. How does Shodhganga benefit research scholars?
10. Comment on Turnitin.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Discuss the scope and significance of Biostatistics.
12. Define normal distribution. What are the properties of normal distribution?
13. Discuss various steps in the procedure of testing of hypothesis?
14. Write a note on statistical softwares.
15. Explain briefly the significance of good research.
16. Briefly describe the Research Process.

17. What are the different conventions and strategies of authentication in research?

18. What are the different global information system?

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. The following data shows the number of poultry in 90 houses in a village. Calculate Mean deviation and Standard deviation.

Poultry	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69
No. of Houses	6	14	12	10	10	9	9	10	5	4	1

20. Explain different types of correlation and methods of correlation analysis.

21. Describe in detail the informal research designs. Mention its advantages and disadvantages.

22. Explain briefly the structure and components of Scientific Reports.

(2×5=10 weightage)