QP CODE: 21002065

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Reg No : .....

Name : .....

M Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2021

First Semester

M Sc ZOOLOGY

CORE - ZL010104 - BIOSTATISTICS AND RESEARCH METHODOLOGY

2019 ADMISSION ONWARDS

00063502

Time: 3 Hours

Weightag

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Differentiate Parametric and Non Parameteric tests.
2. Comment on Poisson distribution.
3. Define parametric test?Mention the most widely used parametric tests?
4. How is mathematical modelling useful for drug discovery?
5. Mention any 2 differences between Research methods and Research methodology.
6. Comment on Research Design.
7. Mention the role of funds and time period in selecting the research problem.
8. What is the importance of referencing.
9. What is a project proposal.
10. What is the role of institutional website as an online resource?

(8×1=8 we

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Calculate mode for the following data.

Marks	10	15	20	25	30	35	40
Frequency	8	12	36	35	28	18	9

12. What is probit analysis? Mention its applications.
13. What is mean by one way Analysis of Variance?
14. Write a note on statistical softwares.
15. Explain the basic concepts of research. Mention the motivation for research.
16. Explain and illustrate the Factorial Research Design.
17. What are the steps to be considered while preparing research papers for journals ?
18. Give an account on plagiarism.

(6×2=12 we

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. Obtain the rank correlation coefficient between the variables X and Y from the following pairs of observed variables.

X:	50	55	65	50	55	60	50	65	70	75
Y:	110	110	115	125	140	115	130	120	115	160

21. Explain in detail the steps in development of research plan. How is it different from a research proposal.

22. What is a Scientific report? Briefly discuss the different types of report

(2×5=10 we