QP CODE: 22001480

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Reg No : _____

Name : _____

M Sc DEGREE (CSS) EXAMINATION, JULY 2022

First Semester

M Sc ZOOLOGY

CORE - ZL010104 - BIOSTATISTICS AND RESEARCH METHODOLOGY

2019 ADMISSION ONWARDS

F7B06654

Time: 3 Hours Weightage

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Merits and limitations of arithmetic mean.
2. In correlation analysis dependent and independent variables can be interchanged, but the same cannot be done in regression analys Justify the statement.
3. What is Blue Brain Project?
4. Give an introduction to R software.
5. Comment on characteristics and defects of Rationalism.
6. Comment on the highlights of a good research design.
7. What is a sample design?
8. What is an impact factor.
9. What is a project proposal.
10. Comment on URKUND.

(8×1=8 weight

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Is chi square test a parametric or non parametric test? Justify your answer
12. Calculate coefficient of correlation from the following data.

X	100	200	300	400	500	600	700
Y	30	50	60	80	100	110	130

13. Differentiate between Type I error and Type II error?
14. What is mean by one way Analysis of Variance?
15. Explain the characteristics and advantages of Empirical research with examples.
16. Explain diagnostic research design with a case study.
17. Explain the different types of reports.

18. What are the steps in a poster presentation.

(9×2=12 weight

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. Write an essay on theorems in probability and different types of probability distributions.

21. Explain the steps in defining and formulating the research problem. Mention the significance of defining and formulating the problem before research.

22. What is an Online Resource? Discuss the different online resources available in research.

(2×5=10 weight