QP CODE: 19002384

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Reg No : .....

Name : .....

M.Sc. DEGREE (C.S.S) EXAMINATION, NOVEMBER 2019

First Semester

Faculty of Science

ZOOLOGY

Core - ZL010104 - BIOSTATISTICS AND RESEARCH METHODOLOGY

2019 Admission Onwards

756A7F6D

Time: 3 Hours

Maximum Weight :30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What are the various categories of data?
2. What do you mean by the term probability?
3. What is meant by the test of a statistical hypothesis?
4. What is SPSS? What are its applications?
5. Comment on the significance of scientific temper.
6. Using a flow diagram give the steps in formulating the research problem.
7. Mention the importance of pilot studies before formulating a research problem.
8. what is the difference between thesis and dissertation
9. What are the different global information system
10. What is INFLIBNET

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Marks obtained by different students in a class is given below. Find Mean deviation and Coefficient of Mean deviation.

Marks	12	16	17	18	22	24	27	28	30
No. of students	6	8	3	7	5	10	9	11	4

12. Describe the least square assumption in regression analysis.
13. What is the difference between Kruskal Wallis test and Mann Whitney test?
14. Give an account of applications of mathematical modelling in Biology.
15. Distinguish between descriptive and analytical research using examples.

16. Describe the development of a research plan in science projects.

17. How to prepare research papers for seminars and conferences

18. What is extension from lab to field

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain measures of dispersion.

20. Making use of data summarized below, calculate the correlation coefficient and comment on the nature of correlation.

Case:	A	B	C	D	E	F	G	H
X :	10	6	9	10	12	13	11	9
Y:	9	4	6	9	11	13	8	4

21. Describe in detail the importance of research designs. Mention the basic principles and features of a good research design.

22. What do you mean by presentation in Research? What are the different presentation techniques

(2×5=10 weightage)