QP CODE: 25024519

Reg No : .....

Name : .....

M.Sc DEGREE (CSS) EXAMINATION, APRIL 2025

Fourth Semester

M Sc BIOINFORMATICS

ELECTIVE - BT810403 - RESEARCH METHODOLOGY & SCIENTIFIC WRITING

2019 ADMISSION ONWARDS

41946223

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What is research methodology?
2. How do you define concept? Explain operational definition.
3. List out any two types of diagrams used to represent data.
4. How to write a research topic?
5. Write a short note on bibliographical citations.
6. Define census and sample survey.
7. What are the applications and procedure of student's t-test?
8. Write a short note on basics in science grammar.
9. Write a short note on abbreviations and acronyms in science.
10. Write a short note on research reviews.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Compare and contrast between any two types of research.
12. How to formulate a research problem?
13. The hypothesis setting is the most important part of a research. Justify this statement.

14. How do you code data? List out the methods used.

15. Write the significance of diagrams and graphs in representation of data.

16. What are the sources and phases of survey method? List out its applications.

17. What are the types of distributions present?

18. Difference between thesis and dissertation.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Illustrate the differences between exploratory and descriptive research. Describe all other types of research methods.

20. What is a research design? What are the components involved in research design?

21. What are steps involved in doing a research? How do you prepare the review of literature?

22. Explain collection of data.

(2×5=10 weightage)