

TB245175Q

19.11

Reg. No : .....

Name : .....

**BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024**

**2022 ADMISSIONS REGULAR**

**SEMESTER V - CORE COURSE (BOTANY )**

**BO5B06B18 - Research Methodology, Biophysics and Biostatistics**

**Time : 3 Hours**

**Maximum Marks : 60**

**Part A**

**I. Answer any Ten questions. Each question carries 1 mark**

**(10x1=10)**

1. Describe the title page of a research report.
2. Define research.
3. Name two international journals in Life science.
4. What is Linux?
5. Name any two windows based programmes.
6. What is biophysics?
7. Explain the basic principle of pH meter.
8. Define pH of a medium.
9. State Beer-Lambert's law.
10. What is a frequency distribution?
11. Define cartograms.
12. Define data.

**Part B**

**II. Answer any Six questions. Each question carries 5 marks**

**(6x5=30)**

13. Describe the various categories of literature review.
14. Differentiate the primary and secondary sources of literature.
15. Write an explanatory note on MS WORD.
16. Explain biomedical instrumentation.
17. What is a spectrophotometer? Give its applications.
18. Explain the parts of a compound microscope.
19. Explain the different types of restricted random sampling methods.
20. Write notes on random sampling.
21. Explain cumulative frequency distribution.

**Part C**

**III. Answer any Two questions. Each question carries 10 marks**

**(2x10=20)**

22. Write an essay on the structure of a scientific research report.
23. What is research methodology? Explain the steps in scientific research process.
24. Explain the different types of chromatographic techniques.
25. Explain different types of diagrammatic representation of frequency distribution.