B. Sc. DEGREE (C.B.C.S.) EXAMINATION, NOVEMBER 2022
2020 ADMISSIONS REGULAR AND 2019, 2018 ADMISSIONS SUPPLEMENTARY
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. Define variable.

2. What is a research problem?

3. Describe the title page of a research report.

4. What is application software?

5. What is Scitable ?

6. Enlist the branches of Biophysics.

7. Define numerical aperture of a microscope.

8. Expand SEM and TEM.

9. What is Abbe's law?

10. Define standard deviation.

11. What is a multimodal data?

12. Define data.

Part B

II. Answer any Six questions. Each question carries 5 marks   **(6x5=30)**

13. What is the purpose of writing a literature review?

14. What is research methodology?

15. Write an explanatory note on MS WORD.

16. Give a brief account on membrane biophysics.

17. Write a brief account on the principle and applications of centrifuge.

18. Give an account on SDS PAGE.

19. Write notes on random sampling.

20. Describe merits and demerits of sampling.

21. Explain cumulative frequency distribution.

Part C

III. Answer any Two questions. Each question carries 10 marks   **(2x10=20)**

22. Explain the format of a thesis.

23. Write an essay on the stages of research.

24. Explain the different types of chromatographic techniques.

25. Explain different types of diagrammatic representation of frequency distribution.