



22103669

QP CODE: 22103669

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS,
NOVEMBER 2022**

Fifth Semester

**CORE COURSE - BO5CRT06 - RESEARCH METHODOLOGY, BIOPHYSICS AND
BIOSTATISTICS**

Common to B.Sc Botany Model I, B.Sc Botany Model II Environmental Monitoring And
Management, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Horticulture and
Nursery Management & B.Sc Botany Model II Plant Biotechnology

2017 Admission Onwards

91ECE7F4

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What is appendix?
2. Name any two National Journals in Lifesciences.
3. What is LINUX?
4. Name the shortcut key for 'cut' in MS-Word.
5. What is pie chart?
6. Name the extension of a MS-PowerPoint document.
7. Define cellular biophysics.
8. Name any two laws associated with colorimetry?
9. Name any two solvents used in column chromatography.
10. What is counting chamber?
11. Define random sampling.
12. Who proposed Chi-square first ?

(10×1=10)





Part B

Answer any **six** questions.

Each question carries **5** marks.

13. What is the importance of "hypothesis" in research?
14. Write short note on "Characteristics of a good research report".
15. How to prepare a pie diagram using MS-Excel?
16. Write s short note on Educational sites related to biological science.
17. Differentiate electron microscope and light microscope.
18. Explain the working of thin layer chromatography
19. Define electrophoresis and explain its principle.
20. Comment on any five types of graphical representation of a data commonly used in the preparation of research report.
21. What is normal distribution?

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Briefly explain the importance of collection of data, analysis and interpretation in research.
23. What are search engines? Explain the different types of search engines with examples.
24. Explain the principle, working and application of light microscope.
25. Briefly explain Distribution patterns. What are the different types of distribution patterns you have studied.

(2×10=20)

