

QP CODE: 22102073



Reg No :

Name :

B.Sc DEGREE (CBCS) SPECIAL SUPPLEMENTARY EXAMINATIONS, MAY 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

2019 Admission Only

FE02AD5D

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is alternate hypothesis?
2. What is INSCOC?
3. Name an example of operating system studied by you.
4. Name the shortcut key for 'paste' in MS-Word.
5. Name the common average in MS-Excel.
6. What is Scitable?
7. Define molecular biophysics.
8. Define chromatic aberrations.
9. Who discovered electron microscope?
10. Define Beer's Law.
11. What is primary data?
12. Who coined the term standard deviation?

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. What are the features of a good hypothesis?
14. Why is a control necessary in a well planned experiment?
15. Mention the step involved to draw a pie-chart using MS-Excel.
16. Comment on meta search engines.
17. Explain the principle of chromatography.
18. Discuss about the various types of electrophoresis.
19. Describe the working of pH meter.
20. Differentiate bar diagram and pie diagram.
21. What is normal distribution?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Briefly explain about the preparation of dissertation in IMRAD system.
23. Explain the steps involved in the preparation of MS-PowerPoint with tables, charts ,pictures and animation.
24. Comment on the principle, working and application of ultracentrifuge.
25. What is meant by measures of central tendency ? Briefly explain with examples.

(2×10=20)

