23142478

QP CODE: 23142478

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, OCTOBER 2023

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

C146C743

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is null hypothesis?
2. What do you meant by interpretation?
3. Write down the shortcut key for ‘find’ in MS-Word.
4. What is line chart?
5. What is meant by ‘transition’ in MS-PowerPoint?
6. Name an academic search engine studied by you.
7. What is magnifying power of a microscope?
8. What is homogenization?
9. What is the most commonly used reference electrode in pH meter?
10. What is counting chamber?
11. What is a variable?
12. Who proposed Chi-square first?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Mention the role of hypothesis in research.
14. Write short note on “Characteristics of a good research report”.
15. Give a brief account on Open Office.
16. Write s short note on Educational sites related to biological science.
17. Differentiate electron microscope and light microscope.
18. Explain the working of column chromatography.
19. Define electrophoresis and explain its principle.
20. Briefly explain the various methods for collecting data.
21. What is mode? Explain with an example.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Discus the importance and purpose “ Review of literature” in research and briefly mention the various literature sources.
23. Mention the different types of Statistical tools, Functions and Formulas in MS- Excel.
24. Briefly explain the structure and working of centrifuge.
25. What is meant by distribution patterns? Explain the different types of distribution patterns you have studied.

(2×10=20)