



23145787

QP CODE: 23145787

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE  
EXAMINATIONS, DECEMBER 2023**

**First Semester**

**Core Course - BO1CRT01 - METHODOLOGY OF SCIENCE & AN INTRODUCTION TO  
BOTANY**

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 Plant Biotechnology,  
B.Sc Botany Model II Horticulture and Nursery Management & B.Sc Botany and Biotechnology  
Model III Double Main

2017 Admission Onwards

6CB31019

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

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

1. Which is the first step in starting a research process?
2. What do you mean by review of literature?
3. What are extraneous variables?
4. What is replication?
5. Name the book on which Darwin and Wallace published the theory of natural selection.
6. Who proposed five Kingdom classification?
7. What are coprophilous fungi?
8. Which Plant group is known as 'Amphibians of Plant Kingdom'?
9. Which plant group produce seed, but lacks fruit?
10. What is the combination of Farmer's fluid?
11. What are whole mounts?
12. Give an example for a stain used in cytological studies.

(10×1=10)





**Part B**

*Answer any **six** questions.  
Each question carries **5** marks.*

13. What is a hypothesis and how is it tested?
14. Examine the need for Ethics in Science.
15. Differentiate convergent and divergent evolution.
16. What is speciation? Differentiate between allopatric and sympatric speciation.
17. What are the demerits of two Kingdom classification?
18. Discuss three domains of life in brief.
19. Write an account on nutrition and reserve food products in algae.
20. Describe the parts of a flower.
21. What is vasculum? How is it used?

(6×5=30)

**Part C**

*Answer any **two** questions.  
Each question carries **10** marks.*

22. Explain the various steps you will be following in an experiment to study the necessity of light on photosynthesis.
23. Give an account on geological time scale.
24. How is archaea different from bacteria and eukarya?
25. Describe the steps involved in preparation of permanent slides for light microscopy.

(2×10=20)

