



QP CODE: 23104633



Reg No : .....

Name : .....

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

E596DD71

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

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

1. What is inductive reasoning?
2. Define Scientific literature.
3. Define variable.
4. What is Controlled Experiment?
5. What is "reproductive isolation"?
6. Define mycorrhiza.
7. Define mycelium.
8. Define Heterospory?
9. What are stamens?
10. What is the use of plano- concave mirror in a compound microscope?
11. Expand FAA.
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 meant by testing of hypothesis? Discuss the steps of hypothesis testing.
14. Give an account on ethics in science.
15. Give an account on theories on origin of life.
16. What are the major postulates of mutation theory?
17. Give a brief account of phylogenetic classification as given by August Wilhelm Eichler.
18. Discuss three domains of life in brief.
19. Explain the pigments present in algae.
20. Explain in detail the salient features of Pteridophytes.
21. What is sectioning? Differentiate TLS, TS and RLS.

(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 carbon dioxide on photosynthesis.
23. Write an essay on evidences of evolution.
24. Describe two Kingdom classification. List out merits and demerits of two Kingdom classification.
25. What is herbarium? Briefly describe the various steps involved in the preparation of a herbarium.

(2×10=20)

