



22101806

QP CODE: 22101806

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS ) SPECIAL SUPPLEMENTARY EXAMINATIONS,  
MAY 2022**

**Fifth Semester**

**CORE COURSE - BO5CRT05 - ANATOMY, REPRODUCTIVE BOTANY AND  
MICROTECHNIQUE**

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 & B.Sc Botany and Biotechnology  
Model III Double Main  
2019 Admission Only  
E0475439

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

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

1. What are the secondary wall materials present on the cell wall?
2. The cut surface of plants of Araceae are prone to itching. What is the reason.
3. Mention the function of sieve tube.
4. What is a closed vascular bundle?
5. Define lenticel.
6. What is cork?
7. What is one unit of androecium called?
8. What is nemec phenomenon?
9. What is placentation?
10. What s chalazogamy?
11. What are the two different types of embryo sacs found in angiosperms?
12. What is double staining?

(10×1=10)





### Part B

Answer any **six** questions.

Each question carries **5** marks.

13. What are simple pits? Write a brief account on the structure of a simple pit.
14. Differentiate between apposition and intussusception.
15. Briefly explain Korper-Kappe theory.
16. Draw a neat labelled diagram of monocot leaf.
17. By means of brief notes and examples, distinguish between porous and non porous wood.
18. Give an account of microsporogenesis.
19. Discuss the different types of endosperm.
20. Explain the structure of a typical monocot embryo.
21. Explain the chemistry behind killing and fixing methods in botanical specimen preparation.

(6×5=30)

### Part C

Answer any **two** questions.

Each question carries **10** marks.

22. With the help of suitable diagrams describe the structure, types and functions of stomata in Dicots.
23. Describe the process of anomalous secondary growth in Dracaena stem.
24. Write a brief account on pollination mechanisms and agents of pollination.
25. Give an account of mounting and mounting media.

(2×10=20)

