



QP CODE: 22103416



Reg No : .....

Name : .....

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

2017 Admission Onwards

BF0316BC

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

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

1. What are the primary wall materials present on the cell wall?
2. What is apposition?
3. What are passage cells?
4. What is a bicollateral vascular bundle?
5. What are ray initials?
6. What is rhytidome?
7. What is amoeboid tapetum?
8. What is exine?
9. What is placentation?
10. What is embryo sac haustoria?
11. Define cleavage polyembryony.
12. What is single staining?

(10×1=10)





### Part B

Answer any **six** questions.

Each question carries **5** marks.

13. What are bordered pits? Write a brief account on the structure of a bordered pit.
14. Write an account on reserve food products.
15. Briefly explain Korper-Kappe theory.
16. Give a comparative account on the primary structure of dicot stem and monocot stem.
17. By means of brief notes and examples, distinguish between diffuse porous and ring porous wood.
18. Briefly describe the different parts of a flower.
19. Give account of double fertilization in Angiosperms. Mention its importance.
20. Comment on endosperm. Discuss its functions.
21. Differentiate between smear and squash preparation.

(6×5=30)

### Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Describe the structure and functions of xylem and its components.
23. Describe the process of anomalous secondary growth in Boerhavia stem.
24. Describe different types of embryo sacs seen in angiosperms.
25. Explain the steps of preparation to make permanent hand sections.

(2×10=20)

