



QP CODE: 21101606

Reg No :

Name :

B.Sc DEGREE (CBCS) SPECIAL SUPPLEMENTARY EXAMINATION, JULY 2021

Fifth Semester

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

Common to B.Sc Botany and Biotechnology Model III Double Main, 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
2018 Admission Only
61890CAA

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What are simple pits?
2. Define procambium.
3. Name a living mechanical tissue.
4. What is a collateral vascular bundle?
5. Define stele.
6. What is inter fascicular cambium?
7. What is one unit of gynoecium called?
8. Write a note on NPC system of classification.
9. What are antipodals?
10. What is triple fusion?
11. What is perisperm?
12. Name a clearing agent used in specimen preparation.

(10×1=10)





Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Write a brief note on extra cell wall thickening materials.
14. Write a short note on mineral crystals in plant cells.
15. Explain the structure and function of epidermal tissue system.
16. Differentiate between heart wood and sap wood.
17. By means of brief notes and examples, distinguish between diffuse porous and ring porous wood.
18. Describe different types of tapetum met with in the Angiosperms. Write about its function.
19. Explain the structure of a mature ovule.
20. Explain polyembryony and its significance.
21. Differentiate between smear and squash preparation.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Explain the ultra structure of cell wall.
23. Explain the secondary thickening in *Dracaena* stem.
24. Describe the types of embryo sacs in angiosperms studied by you.
25. Why are microscopic objects stained before study? Give a detailed account of the stains studied by you.

(2×10=20)

