

QP CODE: 21100057



Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATION, FEBRUARY 2021

Fifth Semester

**Core Course - BO5CRT05 - ANATOMY, REPRODUCTIVE BOTANY AND
MICROTECHNIQUE**

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

2017 Admission Onwards

7A62408C

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Mention the chemical components of middle lamella.
2. What is the chemical nature of raphides?
3. What are aerenchyma? State its function.
4. What is cutinization?
5. What is bundle sheath in monocot stem?
6. What is spring wood?
7. What is one unit of androecium called?
8. What is intine?
9. What is micropyle?
10. What are synergids?
11. What is endosperm?
12. What is the use of rotary microtome?

(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. Explain the various patterns of cell wall thickening in tracheary elements.
15. Explain Korper-Kappe theory.
16. By means of labelled diagram comment on the formation of periderm.
17. What is reaction wood? How do you differentiate tension wood and compression wood?
18. Explain the development of microsporangium in Angiosperms.
19. Give an account of haustoria developed from different parts of embryosac.
20. Explain briefly on the structure of a typical monocot embryo.
21. What is maceration? Explain any maceration technique.

(6×5=30)

Part C

Answer any two questions.

Each question carries 10 marks.

22. With the help of suitable diagrams describe the different types of vascular bundles in stem.
23. Describe the process of anomalous secondary growth in *Dracaena* stem.
24. Write a note on pollination mechanisms and agents of pollination.
25. What are stains? Explain various staining procedures usually employed in botanical microtechnique.

(2×10=20)

