



QP CODE: 20100057

Reg No : .....

Name : .....

**BSc DEGREE (CBCS ) EXAMINATION, FEBRUARY 2020**

**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

C5B8F185

Time: 3 Hours

Maximum 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. How is the protoplasmic continuity maintained in a plant?
3. What is intussusception?
4. Name a dead mechanical tissue.
5. What are pith rays?
6. What is heart wood?
7. What is one unit of corolla called?
8. Give a note on nexine.
9. Differentiate crassinucellate and tenuinucellate ovules.
10. What s chalazogamy?
11. What is horny endosperm?
12. What is a microtome?

(10×1=10)



### Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Briefly explain Korper-Kappe theory.
14. Write a short note on hypodermis in stems.
15. Briefly explain radial vascular bundles with suitable diagrams.
16. Comment on the different anomalous primary features seen in dicot plants.
17. By means of brief notes and examples, distinguish between porous and non porous wood.
18. Briefly explain the development of anther wall.
19. How does fertilization take place in Angiosperms?
20. Explain the structure of a typical dicot embryo.
21. Differentiate between smear and squash preparation.

(6×5=30)

### Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Briefly explain the non-living inclusions in plant cells.
23. Discuss the process of extra stelar and intra stelar secondary thickening in a dicot root.
24. Describe different types of embryo sacs seen in angiosperms.
25. What is staining? Add a note on different type of stains with examples.

(2×10=20)

