

**25P130**

(Pages: 2)

Name: .....

Reg.No: .....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2025**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19PBOT1C03 - ANGIOSPERM ANATOMY, ANGIOSPERM EMBRYOLOGY, PALYNOLGY  
AND LAB TECHNIQUES**

(Botany)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**

Answer any ***four*** questions. Each question carries 2 weightage.

1. Write a note on plant cell wall.
2. What are transfer cells?
3. How does anatomical differentiation occur in mesocotyle region of seedling?
4. Explain trilacunar node.
5. Write a note on artificial pollination.
6. Distinguish eurypalynous and stenopalynous taxa.
7. Differentiate between natural and synthetic dye with examples.

**(4 × 2 = 8 Weightage)**

**Part-B**

Answer any ***four*** questions. Each question carries 3 weightage.

8. Elucidate the relation of anatomy to taxonomy.
9. Briefly describe the wood anatomy.
10. Describe the origin and structure of periderm.
11. Write an account on embryo development in dicot.
12. Explain structure of pollen wall.
13. What is Rocking microtome?
14. Write the procedure of preparation of maceration of slide for plant materials.

**(4 × 3 = 12 Weightage)**

### **Part-C**

Answer any ***two*** questions. Each question carries 5 weightage.

15. Explain the anomalous secondary growth in beet root and sweet potato with suitable diagrams.
16. Explain microsporogenesis in angiosperms with suitable diagrams.
17. Explain Aeropalynology and methods of air spore survey.
18. Explain the sectioning of embedded paraffin wax materials using Rotary microtome.

**(2 × 5 = 10 Weightage)**

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