

24P130

(Pages: 2)

Name:

Reg.No:

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P BOT1 C03 - ANGIOSPERM ANATOMY, ANGIOSPERM EMBRYOLOGY, PALYNOLOGY
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. Describe the structure phloem.
2. How does anatomical differentiation occur in mesocotyle region of seedling?
3. Differentiate compression wood from tension wood.
4. Differentiate Paracytic stomata from Diacytic stomata.
5. Describe endosperm haustoria.
6. Give an account on airspore survey.
7. Explain whole mounts.

(4 × 2 = 8 Weightage)

Part-B

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

8. Give abrief account on development and chemistry of primary cell wall.
9. Elucidate the anomalous secondary growth in a storage roots.
10. Elucidate the development of cork cambium.
11. What is parthenocarpy? Add a note on its importance.
12. Explain NPC System.
13. What is Camera lucida? Explain its working.
14. Give a breif account of vital staining.

(4 × 3 = 12 Weightage)

Part-C

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

15. Anatomical characters have been utilized to solve many taxonomic problems. Explain with suitable examples.
16. Write an essay on megasporogenesis.
17. Explain Paleopalynology and its role in oil exploration and also mention another applications of palynology.
18. Explain the sectioning of embedded paraffin wax materials using Rotary microtome.

(2 × 5 = 10 Weightage)
