

23P130

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Name:

Reg.No:

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(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. What are plasmodesmata? Mention their functions.
2. Differentiate between paratracheal and apotracheal parenchyma.
3. Differentiate compression wood from tension wood.
4. Explain the role of cambium in wound healing.
5. Write a note on dry and wet stigma.
6. Explain Paleopalynology and its role in oil exploration.
7. Explain the important steps involved in preparing permanent slides of soft materials.

(4 × 2 = 8 Weightage)

Part-B

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

8. Explain the anomalous secondary thickening in the stem of *Dracaena* with the help of diagrams.
9. Briefly describe the concepts of seedling anatomy.
10. Explain the importance of nodal anatomy.
11. Distinguish the structure of monocot embryo from dicot embryo.
12. Give an account on the contributions of Erdtman.
13. Give a brief account of vital staining.
14. Enumerate dehydrating and clearing agents.

(4 × 3 = 12 Weightage)

Part-C

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

15. Write an account of anatomy in relation to taxonomy with suitable examples.
16. With suitable diagrams explain microsporogenesis in angiosperms.
17. Explain mellisopalynology and differentiate between unifloral honey and multifloral honey.
18. Explain different types of microtomes and its working.

(2 × 5 = 10 Weightage)
