

21P130

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Name:

Reg.No:

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P BOT1 C03 - ANGIOSPERM ANATOMY, ANGIOSPERM EMBRYOLOGY, PALYNOLOGY
& 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 is plasmodesmata?
2. How does anatomical differentiation occur in mesocotyle region of seedling?
3. What is reaction wood?
4. Define centric leaf.
5. Describe the structure and function of synergid.
6. Give an account on airspore survey.
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. Explain the process of anomalous secondary growth in a named storage root.
9. Elucidate the relation of anatomy to taxonomy.
10. Explain how the seasons influence the cambial activity of plants.
11. Distinguish the structure of monocot embryo from dicot embryo.
12. Give an account on the contributions of Erdtman.
13. What is a micrometer? How do you use it?

14. Enumerate dehydrating and clearing agents.

(4 × 3 = 12 Weightage)

Part-C

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

15. Explain the ultra structure of phloem and add a note on transfer cells.

16. Explain sexual incompatibility in plants and add a note on pollen pistil interactions.

17. Write an essay on recent advances in palynological studies.

18. Give a detailed account about the making of permanent serial section slide.

(2 × 5 = 10 Weightage)
