

21U128

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Name:

Reg.No:

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2021
(CBCSS - UG)
(Regular/Supplementary/Improvement)
CC19U BOT1 C01 - ANGIOSPERM ANATOMY AND MICROTECHNIQUE
(Botany - Complementary Course)
(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 2

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Briefly explain Histogen theory of root apex organization.
2. What is a complex tissue?
3. Elucidate the structure and function of laticiferous tissue.
4. What are radial vascular bundles?
5. Enumerate any four salient features of Monocot stem.
6. List any four major differences between dicot leaf and monocot leaf.
7. What is fusiform initial?
8. What are lenticels?
9. Write a brief account of annual rings.
10. Why heart wood is more durable than sap wood?
11. What do you mean by fixation?
12. What are basic stains? Give an example.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Explain the classification of meristems based on its origin and position.
14. Explain the structure and function of sclerenchyma.

15. Describe the primary structure of a dicot root.
16. Differentiate between intra stelar secondary growth and extra stelar secondary growth.
17. Briefly explain secondary thickening in Tinospora root.
18. Explain anomalous secondary growth in Boerhaavia.
19. Give a short account on the mechanical operation of a compound microscope.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. With suitable labelled diagrams, describe the primary structure of a dicot stem.
21. Describe the method of permanent slide preparation by microtomy.

(1 × 10 = 10 Marks)
