

22U125

(Pages: 2)

Name:

Reg.No:

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2022

(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. Explain Tunica Corpus theory.
2. Explain the structure of parenchyma.
3. Describe the stinging hairs of *Tragia*.
4. What are radial vascular bundles?
5. What are medullary rays?
6. Describe the anatomy of dicot leaf.
7. What is ray initial?
8. What is periderm?
9. Differentiate between ring porous wood and diffuse porous wood.
10. What is heartwood?
11. What is resolving power of a microscope?
12. What do you mean by double staining?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. What are meristems? Classify them based on origin, position, growth patterns and function.
14. Briefly describe the components of phloem tissue.
15. With illustration explain the T.S. of monocot stem.
16. Briefly explain secondary thickening in a dicot stem.

17. Briefly explain secondary thickening in *Tinospora* root.
18. Briefly explain anomalous secondary thickening in a dicot root.
19. Give a brief account on clearing.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Explain the anatomical differences between dicot root and monocot root with the help of diagrams.
21. What is the principle of microtome? Explain the various types of microtomes and their applications.

(1 × 10 = 10 Marks)
