

D1BBT2302 (S1)

Reg. No.....

Name: .....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(Improvement/Supplementary)

BOTANY: COMPLEMENTARY COURSE FOR ZOOLOGY

GBOT1C01T: ANGIOSPERM ANATOMY AND MICROTECHNIQUE

Time: 2 Hours

Maximum Marks: 60

**SECTION A: Answer the following questions. Each carries *two* marks.**

**(Ceiling 20 marks)**

1. Define a microtome.
2. What are wood fibres?
3. What is a stain? Name one acidic stain.
4. Mention the characteristic features of cork cells.
5. Name two reagents used for clearing.
6. What are simple tissues?
7. Comment on fixatives.
8. What are companion cells?
9. What is protoxylem lacunae? Where is it found?
10. State the functions of bulliform cells.
11. Give an account on the digestive glands in Nepenthes.
12. What are laticiferous tissues? Give one example.

**SECTION B: Answer the following questions. Each carries *five* marks.**

**(Ceiling 30 marks)**

13. Write a detailed note on meristematic tissues.
14. Write an account on the types of wood found in angiosperms.
15. Describe the steps involved in the preparation of permanent slides.
16. Write a note on extra-stelar secondary growth.
17. Compare the anatomical features in the primary structure of dicot and monocot stem.
18. Give a short note on secretory tissues.
19. With the help of a neat labelled diagram explain the structure of a dicot leaf.

**SECTION C: Answer any *one* question. The question carries *ten* marks.**

20. Explain the principle and parts of electron microscope.
21. Discuss the anomalous secondary thickening in *Boerhaavia diffusa*.

**(1 x 10 = 10 Marks)**