

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(Regular/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 Secretory tissues.
2. Differentiate between fusiform and ray initials.
3. What is FAA? How it is prepared?
4. Define Bi-collateral vascular bundle with suitable examples.
5. What is quiescent center?
6. How do tracheids differ from vessels?
7. What is acetocarmine? What is its use?
8. Explain Laticifers.
9. What are tyloses?
10. Write note on rotary microtome.
11. Explain hydathode with suitable diagram.
12. What is dendrochronology? Explain its importance.

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

(Ceiling 30 Marks)

13. Briefly explain the different types of woods found in Angiosperms.
14. Explain Tunica-Corpus theory.
15. What are the different types of vascular bundles?
16. Write the anatomical difference between root and stem.
17. Explain principle and types of electron microscope.
18. Describe Killing and fixing. Write the composition of two Killing agents.
19. Explain the structure of dicot leaf with suitable diagram.

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

20. Write an essay on Secondary growth in *Boerhaavia*.
21. Elaborate on permanent tissues with examples.

(1 x 10 = 10 Marks)