20U125 (Pages: 2) Name: .....

Reg.No: .....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(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

Draw diagrams only when specified

Part A (Short answer questions)

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

1. Give a brief account of meristematic tissues
2. Briefly explain Histogen theory of root apex organization.
3. Xylem is considered as a complex tissue. Substantiate the statement.
4. Explain concentric vascular bundles
5. What are medullary rays?
6. What is hypodermis?
7. What is inter fasicular cambium?
8. Explain periderm.
9. What are growth rings?
10. What are tyloses?
11. Give the magnification of a compound microscope.
12. Briefly describe the preparation of acetocarmine

(Ceiling: 20 Marks)

Part B (Short essay questions)

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

13. Compare the structure and functions of collenchyma and sclerenchyma.

14. Explain hydathode

15. With illustration explain the T.S. of young dicot root

16. Briefly explain secondary thickening in a dicot stem.

17. Briefly explain secondary thickening in a dicot root.

18. Briefly explain anomalous secondary thickening in Boerhaavia stem.

19. What is killing and fixing? Give the composition of Farmer's formula and FAA.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Explain the anatomical differences between dicot and monocot leaf 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)

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