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Name:

Reg. No.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CUCBCSS-UG)

CC19U BOT1 C01 – ANGIOSPERM ANATOMY AND MICROTECHNIQUE

(Botany- Complementary Course)

(2019 Admission Regular)

Time: Two Hours

Maximum: 60 Marks

Credit: 2

Draw diagrams only when specified.

I. Answer all Questions. Each question carries 2 marks.

1. Differentiate between diffuse porous wood and ring porous wood.
2. What is bark?
3. Describe Histogen theory.
4. What are laticifers?
5. What are tyloses?
6. Differentiate between storied and non-storied cambium.
7. Comment on the functions of collenchyma.
8. What are growth rings?
9. What are bulliform cells? Comment on its function.
10. Mention the composition and function of FAA.
11. Distinguish between killing and fixing.
12. What is rotary microtome? Comment on its applications.

(Ceiling 20 Marks)

II. Answer all Questions. Each question carries 5 marks.

13. Explain extra stelar secondary growth in dicot stem.
14. Give an account on anomalous secondary thickening in *Boerhaavia*.
15. With the help of labelled cellular diagram explain the structure of dicot leaf.
16. Give an account on different types of vascular bundles with suitable diagrams.
17. Explain in detail the structure and functions of various components of phloem.
18. Describe the working of an electron microscope.
19. Explain dehydration in microtechnique. Give examples of dehydrating agents.

(Ceiling 30 Marks)

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

20. With the help of suitable diagrams explain the normal secondary thickening in dicot root.

21. Define meristem. Give an account on its salient features and classification based on the origin and position.

(1 x 10 = 10 Marks)
