

**D 52728**

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Name.....

Reg. No.....

**FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018**

(CUCBCSS—UG)

Core Course (Botany)

**BOT 1B 01—ANGIOSPERM ANATOMY**

Time : Three Hours

Maximum : 80 Marks

**Part A**

*Answer all questions.*

*One Word/Fill in the blanks.*

*1 mark each.*

Fill in the blanks :

1. Casparian strip is made up of \_\_\_\_\_.
2. \_\_\_\_\_ is a conductive wood.
3. \_\_\_\_\_ is a dead mechanical tissue.
4. Tunica corpus theory was proposed by \_\_\_\_\_.
5. The process of water secretion through the structurally modified portion of the leaf is called \_\_\_\_\_.
6. Reserve food in Aleurone grain is \_\_\_\_\_.
7. First formed xylem is called \_\_\_\_\_.
8. Calcium oxalate crystals occurs in the form of rosette shape is called \_\_\_\_\_.
9. Name the vascular bundles in which xylem and phloem are arranged in the same radius \_\_\_\_\_.
10. Specialised epidermal cells surrounding the stomata is called \_\_\_\_\_.

(10 × 1 = 10 marks)

**Part B (Short Answer Questions)**

*Answer all questions.*

*2 marks each.*

11. Write a note on Bark.
12. What is Tylosis ?

**Turn over**

13. What is apposition ?
14. Explain Apical cell theory .
15. Explain Quiescent centre.
16. Explain leaf gap.
17. Differentiate between open and closed bundles.
18. Write a note on Sclerenchyma.
19. Explain conjunctive tissue.
20. Differentiate between leaf trace and leaf gap.

(10 × 2 = 20 marks)

### **Part C (Short Essays)**

*Answer any six questions.*

*5 marks each.*

21. Explain the organization of shoot apex based on Tunica-carpus theory.
22. Differentiate dicot and monocot stem.
23. Describe simple tissues.
24. Explain the secondary growth in dicot stem.
25. Write a note on extra cell wall material.
26. Give an account on different types of starch grains.
27. Write an account on secretory tissues.
28. Explain the classification of meristem you have studied.

(6 × 5 = 30 marks)

### **Part D (Essays)**

*Answer any two questions.*

*10 marks each.*

29. Explain complex tissues in plants.
30. Explain secondary growth in Dicot root with the help of labeled diagram.
31. Explain various types of non living inclusions found in plants.

(2 × 10 = 20 marks)