

17U141

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Name:

Reg. No.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2017

(Regular/Supplementary/Improvement)

(CUCBCSS-UG)

CC15U BOT1 C01 – ANGIOSPERMIC ANATOMY & MICROTECHNIQUE

(Botany- Complementary Course)

(2015 Admission Onwards)

Time: Three Hours

Maximum: 64 Marks

PART A

Answer *all* Questions. Each question carries 1 mark.

1. The meristem seen in between xylem and phloem of a collateral vascular bundle is called
2. Canada balsam is obtained from
3. The proponent of Tunica Corpus Theory is
4. Small isolated openings seen on the surface of trees are called
5. is an example for external secretory tissue
6. Conjoint, bicollateral and open vascular bundles are characteristics of plants
7. FAA stands for.....
8. Bast fibres are the fibres seen associated with
9. is an example for nuclear stain
10. Magnification of light microscope is

(10x1=10 marks)

PART B

Answer any *seven* questions. Each question carries 2 marks

11. Differentiate between shoot apex and root apex
12. What are tylosoids?
13. List any four major differences between dicot leaf and monocot leaf
14. What is the principle behind microscopy?
15. Differentiate between vascular cambium and cork cambium
16. What are hydathodes?
17. Enumerate any four salient features of dicot root
18. What is clearing? Name a clearing agent
19. Comment on FAA
20. What do you mean by infiltration?

(7x2=14 marks)

PART C

Answer any *six* questions. Each question carries 4 marks.

21. Describe the theories that explain the apical organization of root
22. Give a brief account on fixation
23. Explain the functioning of a light microscope
24. Give a brief account on simple permanent tissues
25. Add a short note on various types of vascular tissues in angiosperms
26. Give an illustrated account of the formation of secondary tissues in Boerhaavia
27. Give the anatomical difference between dicot stem and a monocot stem
28. Comment on various types of staining methods employed for histochemical studies

(6x4=24 marks)

PART D

Answer any *two* questions. Each question carries 8 marks.

29. Explain the process of secondary growth in a dicot stem. How does it differ from the secondary growth pattern of a dicot root
30. Xylem is considered as a complex tissue. Substantiate the statement.
31. What is the principle of microtome? Explain the various types of microtomes and their applications

(2x8=16 marks)
