

Name:.....

Reg. No:.....

**FIRST SEMESTER DEGREE EXTERNAL EXAMINATION DEC / JAN 2015-16**  
**(2015 Admission)**  
CC15UBOTIC01- ANGIOSPERMIC ANATOMY AND MICRO TECHNIQUE  
(Complimentary Course)

Time : 3 hrs.

Max.Marks : 64

**Draw diagrams only when specified**

**PART A (Answer all Questions)**

1. ....is an example of lignified tissue
2. The meristamatic cells seen in between Xylem and Phloem of a collateral Vascular bundle is.....
3. ....is a type of cambium arising within the outer cortex of stem of woody plants producing cork and secondary cortex.
4. ....is a cytological stain prepared from the insect Dactylopius cacti
5. Name the Vascular bundle where phloem occurs both internal and external to xylem
6. Give an example for a complex tissue
7. Which theory is used to explain the organization of stem apex in higher plants.
8. Rotary Microtome is used for taking.....
9. Ferric alum is a common.....
10. Name a dehydration reagent used in histological preparations.

(10 x 1 = 10 marks)

**PART - B (Answer / Explain any seven questions)**

11. Draw a labeled diagram of hydathode, mention its function.
12. Differentiate ring porus wood and diffuse porus wood.
13. What are bulliform cells? Mention its function.
14. Distinguish between meristamatic tissues and permanent tissues.
15. Distinguish between storied and non-storied cambium.
16. Write short notes on growth rings.
17. You are given two pieces of young stem cuttings of dicot and monocot plants.  
How will you distinguish them?
18. Mention the properties of chemicals used for dehydration.
19. What are vital stains? Give two examples.
20. Explain the method of preparing a histological fixative.

(7 x 2 = 14 marks)

**PART – C** (Answer any six of the following)

21. Give a detailed account of T.S of monocot leaf.
  22. Explain the method of preparation and use of Acetocarmine.
  23. Give an account of structure and function of phloem.
  24. Describe the anomalous secondary thickening in Boerhaavia stem.
  25. How periderm is formed in Angiosperms.
  26. What are tyloses? How are they formed.
  27. Describe the structure and function of laticiferous tissue found in plants.
  28. Explain the method of embedding materials for paraffin sectioning.
- (6 x 4 = 24 marks)

**PART – D** (Answer any two of the following)

29. Give a detailed account of different types of secretory tissues present in Angiosperms
  30. With illustration give a detailed account of Normal Secondary thickening found in dicot stem
  31. What are meristem? Give the salient features of meristamatic cells and organization of root apex in Angiosperms.
- (8x2 = 16 marks)

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