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## FIRST SEMESTER B.Sc. DEGREE EXAMINATION NOVEMBER 2014



(CUCBCSS-UG)

Complementary Course - Botany

## BOT 1C 01 – ANGIOSPERMIC ANATOMY AND MICROTECHNIQUE

	BOT IC 01 - ANGIOSI ERMIO IL MITTOLITA	
e :	e : Three Hours	Maximum: 64 Marks
[.	I. Allswei die questione	
	Answer in a single word:	estatoavide ide advantages
	1. Vascular bundles where the phloem is found to be present	
	2. Which type of latex duct present in Euphorbia?	
	3. Cork cambium is otherwise known as.	
	4. Name a killing and fixing agent.	
	5. Give an example for nuclear stain.	
		29 What is a salam and its site
	6. Casparian stripes of suberin occur in	
	7 is an example for mounting medium.	31. Besoning the normal Scott
	8. Histogen theory was put forward by	
	9 is an example of a living mechanical tissue.	
	10. Sieve plates are associated with	(40 4 10
		$(10 \times 1 = 10 \text{ marks})$
II	II. Answer any seven questions. Short Answer. (2 marks each)	
	11. Differentiate between ring porous wood and diffuse por	ous wood.
	12. Cambium is considered to be lateral meristem. Why?	
	13. What are hydathodes?	
	14. List out the objectives of killing and fixing.	
	15. Describe oil glands in Citrus.	
	16. What is quiescent centre?	
	17. What is the significance Iris diaphragm?	
		Turn over

- 18. Write a brief account on simple microscope.
- 19. What are Complementary cells?
- 20. What is periderm?

 $(7 \times 2 = 14 \text{ marks})$ 

## III. Answer any six questions. Short Essay. (4 marks each):

- 21. How do you correlate the activity of cambium with changing seasons?
- 22. Explain the Tunica-corpus theory regarding the organization of root apex.
- 23. Differentiate between intrastelar secondary growth and extrastelar secondary growth.
- 24. Explain the different types of vascular bundles.
  - 25. What are the advantages of serial sectioning over hand sectioning?
  - 26. What is the Significance of a Rotary microtome?
  - 27. Describe the anatomy of dicot leaf.
  - 28. Differentiate between sap wood and heart wood.

 $(6 \times 4 = 24 \text{ mar})$ 

## IV. Answer any two questions. Essay. (8 marks each):

- 29. What is a stain and its significance? Explain the preparation and uses of any two stains.
- 30. Define permanent tissues, How will you classify them? Describe simple and complex tissue
- 31. Describe the normal secondary growth in dicot stem and root.

 $(2 \times 8 = 16 \text{ mar})$