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C 338	331	(Pages : 2)	Name
			Reg. No
-	IRST SEMESTER B.Sc. DE	GREE EXAMINAT	HON, NOVEMBER 2017
.	IRST SEMESTER DICE	CUCBCSS—UG)	
	•	plementary Course	
	BOT 1C 01—ANGIOSPER	MIC ANATOMY AND	MICROTECHNIQUE
	••	XI) (7) III (722 O-11-1	Maximum : 64 Marks
Time:	Three Tlours	Part A	
)	A One T	nswer all questions. Word/Fill in the blanks. 1 mark each.	
Answe	r in a Single :		
1,	is the living mechanical ti	isaut.	
2.	The waxy substance associated wit	h the wall of cork cell is	<u> </u>
3.	Paranchymatons tissues containing air spaces————————————————————————————————————		
4.			
	called?		The for exert of the same
6.	Long cylindrical xylem element is	called ————.	
7.	is an example of Basic sta	ein. ·	
8.	FAA stands for		
9.	is an instrument used to	section the woody male:	Tals for historical and
10.	is used as a clearing age	mt.	$(10 \times 1 = 10 \text{ mark})$
	Part B	(Short Answer Quest	(aαοί
		Answer all questions. 2 marks each.	
11.	What is whole mount? How it is p	prepared?	
	What is microtomy?		
13.	and the debuggation ?		
-	Explain Apical cell theory.		•
15.	aabaire		
	Differentiate heart wood and sap	wood .	

Turn ove

- Explain leaf gap.
- 18. Differentiate open and closed vascular bundles
- 19. Write a note on sclerenchyma.
- Describe laticiferous tissues.

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

Part C (Short Essays)

Answer any six questions. 4 marks each.

- 21. Describe various types of vascular bundles.
- 22. Describe simple permanent tissues.
- 23. Describe Hydathodes.
- 24. Explain ring and diffuse porous wood.
- 25. Describe the anatomy dicot leaf.
- 26. What is a stain? Explain with types.
- 27. Explain Killing and Fixation methods used in Anatomy.
- 28. What is a microtome? Give its advantages and write short notes on the types you have studied.

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

Part D (Essays)

Answer any two questions. 8 marks each.

- 29. Explain secondary growth in dicot stem.
- Explain various complex tissues in plants with diagrams.
- 31. Discuss anomalous secondary growth in Boerhavia stem.

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