20U137S	(Pages: 2)	Name:
	(0)	Reg. No
FIRST SEMESTER	B.Sc. DEGREE EXAMINAT	ΓΙΟΝ, NOVEMBER 2020
	(CUCBCSS-UG)	
CC15U BOT1 C01 - AN	NGIOSPERM ANATOMY A	-
(201)	(Complementary Course) 5 to 2018 Admissions - Supple	
Time: Three Hours	5 to 2010 Mannissions Supple	Maximum: 64 Marks
1	Draw diagrams only when spec	cified
	Part A	
Answer	all questions. Each question ca	arries 1 mark.
1. Calyptrogen is found i	n	
2. Passage cells are common in layer of root.		
3. Proponent of Tunica - Corpus theory.		
4. Oil glands are commo	n in	
5. Stinging hairs are pres	ent in	
6. Roughness of grass is	due to the presence of	
7. Name a cytological sta	ain.	
8. Name a fixative agent		
9. Give the expansion of	TEM.	
10. Name a dehydration re	eagent used in histological pre	parations.
		(10 x 1 = 10 Marks)
	Part B	
Answer any	seven questions. Each question	n carries 2 marks.
11. What are tyloses? Men	ntion its functions.	
12. Differentiate Sapwood	l and Heartwood.	
13. Explain Collenchyma	tissue.	
14. Describe bicollateral v	ascular bundle.	
15. What are lenticels?		
16. Explain companion ce	ells.	
17. Define resolving power	er.	

18. Name the optical parts of a compound microscope.

19. Explain acid stains.

20. What are annual rings?

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

Part C

Answer any six questions. Each question carries 4 marks.

- 21. What is meristem? Classify them based on position and origin.
- 22. With suitable labelled diagrams, describe the primary structure of a dicot stem.
- 23. Explain the structure and functions of xylem components.
- 24. Give a detailed account of isobilateral leaf with the help of labelled sketch.
- 25. Briefly describe the mechanism of electron microscope.
- 26. Important anatomical characters of dicot root.
- 27. Describe digestive glands.
- 28. Briefly describe progressive staining.

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

Part D

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

- 29. Describe the method of permanent slide preparation by microtomy.
- 30. Describe the normal secondary growth in dicot stem with suitable diagrams.
- 31. Describe anomalous secondary growth in Boerhaavia stem.

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