# 2023/TDC(CBCS)/ODD/SEM/ BOTHCC-301T/138

# TDC (CBCS) Odd Semester Exam., 2023

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3rd Semester ) destributed in	j è
Course No.: BOTHCC-301T	•
( Anatomy of Angiosperms )	V .X
Full Marks: 50 Pass Marks: 20	1.8
Time 13 hours	2
The figures in the margin indicate full marks for the questions	24
Vrite a short nA—NOITS SE	7 .01
Answer ten questions, selecting any two from each	h II
Unit: 2×1	0=20
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Unit—I	·
1. Write two differences between collenchym and sclerenchyma. In word store a strike	
2. What is meristematic tissue? State it functions.	<b>38</b> ,净〔
3. Write one application of plant anatomy i pharmacognosy.	n di
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### UNIT-II

- Define simple and complex tissues.
- Define pits and plasmodesmata.
- 6. Differentiate between tracheids and vessels.

### UNIT--III

- 7. What do you mean by open vascular bundle?
- 8. Differentiate between protoxylem and metaxylem.
- 9. Write a short note on quiescent centre.

#### UNIT-IV

- 10. Write a short note on tylosis.
- 11. What are ray and axial parenchyma?
- 12. What are ring and diffuse porous woods?

# UNIT—V

- 13. Write a short note on cuticle.
- 14. What are adcrustation and incrustation?
- 15. Name two plants where glandular trichomes are found.

#### SECTION-B

Answer five questions, selecting one from each
Unit:
6×5=30

#### UNIT-I

- 16. Discuss the applications of plant anatomy in forensic science.
- 17. Define tissue system. Write an account on simple permanent tissues with neat sketches.

#### UNIT-II

- 18. Describe in detail the different types of simple tissues. Add diagrams.
- 19. Write a note on the different types of elements of xylem tissue with suitable diagrams.

#### UNIT-III

- Describe different theories of structural development and organization of shoot apex.
- 21. Differentiate anatomically a dicot leaf from a monocot leaf with the help of suitable diagrams.

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## UNIT-IV

22.	Discuss	in	detail	the	development	and	1811
	composition of periderm.					6	

23. Discuss the important events during the secondary growth in thickness in the dicot stem.

### UNIT-V

24. Write in detail the anatomical adaptations of xerophytes.

25. Write the salient features of stomata. Classify the different types of stomata with neat sketches. 2+4=6

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20. Describe different theories of sprinchural de slope at and organization of thoot upex.

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