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**2021/TDC/CBCS/ODD/
BOTHCC-301T/138**

**TDC (CBCS) Odd Semester Exam., 2021
held in March, 2022**

BOTANY

(3rd Semester)

Course No. : BOTHCC-301T

(Anatomy of Angiosperms)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Answer any *ten* of the following questions : $2 \times 10 = 20$

1. What is meristematic tissue? State its functions.
2. Write two differences between collenchyma and sclerenchyma.

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(Turn Over)



(2)

3. Write one application of plant anatomy in pharmacognosy.
4. Define lithocyst.
5. What are the different elements of xylem?
6. What is plasmodesmata?
7. What do you mean by exarch and endarch xylem?
8. Write two anatomical features of C-4 plants.
9. What do you mean by closed vascular bundle?
10. What is tyloses?
11. What are ray and axial parenchyma?
12. Define sapwood.
13. Name two plants where glandular trichomes are found.
14. Define anomocytic stomata.
15. Write two anatomical adaptations of roots of xerophytes.

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(Continued)

(3)

SECTION—B

Answer any *five* of the following questions : 6×5=30

16. Discuss the applications of plant anatomy in forensic science.
17. Define tissue system. Write an account on 'simple permanent tissues with neat sketches. 1+5=6
18. Write a note on cytodifferentiation of tracheary elements.
19. Draw and describe in detail the different types of elements of xylem. 2+4=6
20. Describe different theories of structural development and organization of shoot apex.
21. Neatly draw and describe the anatomical structure of a monocot stem. 3+3=6
22. Write a note on development and composition of periderm.
23. Write an account on secondary growth in stem.

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(4)

24. Write in detail the anatomical adaptations of xerophytes.

25. Classify stomata. Describe all the types with neat sketches.

2+4=6

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