



**2019/TDC/ODD/SEM/
BOTHCC-301T/125**

TDC (CBCS) Odd Semester Exam., 2019

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*

UNIT—I

1. Answer any *two* of the following questions :

2×2=4

- (a) What do you mean by cyto-differentiation?
- (b) What is organogenesis in plants?
- (c) What is meristematic tissue? State its function.

(2)



<http://www.elearninginfo.in> (3)

2. (a) Write a note on the development of plant body. Give a short account of polarity. 3+3=6

Or

- (b) What is tissue system? Write a brief account on epidermal tissue system with diagram. 1+5=6

UNIT—II

3. Answer any *two* of the following questions : 2×2=4

- (a) Define simple and complex tissues.
(b) Define pits and plasmodesmata.
(c) Differentiate between tracheids and vessels.

4. (a) Describe the details of parenchyma, collenchyma and sclerenchyma. Add diagram. 6

Or

- (b) Write a note on the different kinds of elements of xylem tissue. 6

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UNIT—III

5. Answer any *two* of the following questions : 2×2=4

- (a) Write a short note on Kranz anatomy.
(b) Write a short note on quiescent centre.
(c) Define endodermis and pericycle.

6. (a) Describe the different theories of structural development in shoot apex. 6

Or

- (b) Differentiate anatomically a dicot stem from a monocot stem with the help of line diagrams. 6

UNIT—IV

7. Answer any *two* of the following questions : 2×2=4

- (a) Write a note on dendrochronology.
(b) Write a short note on tyloses.
(c) What are sapwood and heartwood?

8. (a) Write a note on periderm, rhytidome and lenticels. 6

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Or

- (b) Discuss the important events during the secondary growth in thickness in the dicotyledonous stem. 6

UNIT—V

9. Answer any two of the following questions : 2×2=4

- (a) State the functions of trichomes and stomata.
(b) What are adcrustation and incrustation?
(c) Write the functions of cuticle.

10. (a) Write the salient features of stomata. Classify the different types of stomata with examples. Add diagram. 2+4=6

Or

- (b) Describe the anatomical adaptation of xerophytes and hydrophytes. 6

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(Economic Botany)

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Time : 3 hours

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UNIT—I

1. Write short notes on any two of the following : 2×2=4

- (a) Importance of germplasm diversity
(b) Domestication of plants
(c) Secondary centre of origin of plant

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