

2024

(FYUGP)

(3rd Semester)

BOTANY

(Major)

Paper Code : BCC-05

(Morphology and Anatomy of Angiosperm)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

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

Answer one question from each Unit

UNIT—I

- 1. Discuss different modifications of leaf. How do the various leaf modifications help the plants.**

7½+7½=15

- 2. Define root modification. Explain how root is modified to perform different functions. Draw neat labelled diagrams.**

2+8+5=15

UNIT—II

3. Write short notes on the following : $7\frac{1}{2} \times 2 = 15$

- (a) Types of placentation
- (b) Floral formula and floral diagram

4. What is an inflorescence? Explain different types of inflorescence with neat diagrams.

$3 + 12 = 15$

UNIT—III

5. What is a tissue? Describe different types of simple permanent tissues with neat labelled diagrams.

$2 + 13 = 15$

6. Write short notes on the following : $7\frac{1}{2} \times 2 = 15$

- (a) Vascular Bundles and its types
- (b) Protective system in plants

UNIT—IV

7. Describe the arrangement of primary tissues in the dicot and monocot root with suitable diagrams.

$7\frac{1}{2} + 7\frac{1}{2} = 15$

8. Write short notes on the following : $7\frac{1}{2} \times 2 = 15$

- (a) Histogen theory
- (b) Apical cell theory

UNIT—V

9. Write short notes on the following : $7\frac{1}{2} \times 2 = 15$
- (a) Secondary growth in stem
 - (b) Ring and diffuse porous wood
10. What is cambium. Write an account on the seasonal activity of cambium and its functions. $2+8+5=15$

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