

2023

(FYUGP)

(3rd Semester)

BOTANY

(Major)

Paper Code : BCC-05

(Morphology and Anatomy of Angiosperms)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

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

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. Give an account on the structure and types of seeds. Add a note on the dispersal of fruits and seeds. 8+7=15

2. Explain the structure and modification of roots with examples. 15

(2)

UNIT—II

3. Write short notes on the following : $7\frac{1}{2} \times 2 = 15$
(a) Types of aestivation
(b) Cohesion and adhesion of floral parts
4. Describe the structure of a flower. Explain the types of inflorescence with suitable examples. $6+9=15$

UNIT—III

5. What are secretory tissues? Discuss the different types of secretory tissue in plants. $2+13=15$
6. Give an account on the structure and classification of tissue. Explain the types of protective system in plants. $8+7=15$

UNIT—IV

7. Describe the arrangement of primary tissues in dicot and monocot stem with suitable diagrams. $7\frac{1}{2}+7\frac{1}{2}=15$
8. Briefly explain the different theories on apical organization of shoots and roots. $7\frac{1}{2}+7\frac{1}{2}=15$

24L/409B

(Continued)

(3)

UNIT—V

9. Define secondary growth. Give an account on the secondary growth in root and stem. $1+(7+7)=15$
10. Write short notes on the following : $7\frac{1}{2} \times 2 = 15$
(a) Seasonal activity of cambium
(b) Sapwood and heartwood

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