

(i) Printed Pages : 4 Roll No.

(ii) Questions : 9 Sub. Code :

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**Bachelor of Science (FYUP) 3rd Semester
(2125)**

BOTANY

Paper : Morphology of Angiosperms

Time Allowed : Three Hours] [Maximum Marks : 67

Note :— Attempt **FIVE** questions in all, including Question No. 1 which is compulsory and selecting **ONE** question from each unit.

1. Answer the following :

(A) Please mark the correct answer :

(i) Which of the following is a unique characteristic of angiosperms?

(a) Presence of rhizoids

(b) Fruit production

(c) Double fertilization

(d) Both (b) & (c)

(ii) Plants which complete their life cycle in a single season are called:

(a) Annuals

(b) Biennials

(c) Perennials

(d) None of the above

- (iii) Tap root system is typically found in:
- (a) Dicotyledons (b) Bryophytes
(c) Monocotyledons (d) All of the above
- (iv) Prop roots are found in:
- (a) Mango tree (b) Guava tree
(c) Banyan tree (d) Gulmohar tree
- (v) Cladode is a modification of:
- (a) Stem (b) Root
(c) Leaf (d) Petiole
- (vi) Which of the following is a sub-aerial modification of stem?
- (a) Tuber (b) Bulb
(c) Thorns (d) Stolon
- (vii) The arrangement of leaves on a plant is called:
- (a) Venation (b) Phyllotaxy
(c) Lamina (d) Leaf base
- (viii) Stipular tendrils are found in
- (a) *Vitis* (b) *Curcubita*
(c) *Smilax* (d) *Lathyrus*

(B) Fill in the blanks:

- (i) Actinomorphic flowers have _____ symmetry.
- (ii) Pneumatophores perform the function of _____.
- (iii) Napiform root is found in _____.
- (iv) Phyllode is a modification of _____.
- (v) Monocotyledons possess _____ venation.
- (vi) _____ is the arrangement of leaves in pairs at right angles to one another.
- (vii) An example of herbaceous plant is _____. 1×15

UNIT—I

2. Give an account of general features of flowering plants. 13
3. Explain the diversity in angiosperms on the basis of their size, habit, and habitat. 13

UNIT—II

4. Give the structure and function of primary and adventitious roots. 13
5. Describe the modifications found in roots. 13

UNIT—III

6. Give a detailed note on the structure and function of stems. 13
7. Explain the various aerial and sub-aerial modifications found in stem. 13

UNIT—IV

8. What are simple and compound leaves? Describe the various functions of leaf. 13
9. Explain the general structure of leaf and the modifications found in leaf. 13