

(i) Printed Pages : 4

Roll No. ....

(ii) Questions : 9

Sub. Code :

0	3	5	4
---	---	---	---

Exam. Code:

0	0	0	4
---	---	---	---

**B.A./B.Sc. (General) 4th Semester**

**1048**

**BOTANY**

**Paper : B Structure Development and Reproduction in  
Flowering Plants-II**

**Time : 3 Hours]**

**[Max. Marks : 36**

*Note :-* (1) Attempt five questions in all.

(2) Question No. 1 is compulsory.

(3) Attempt four more questions selecting one from each unit.

(4) Draw well labelled diagrams wherever necessary.

1. (A) Fill in the blanks :

(i) The rooted portion of a plant used in grafting is called \_\_\_\_\_.

(ii) Parenchyma cells with well developed air spaces are called \_\_\_\_\_.

(iii) In stem of anomalous medullary bundles are arranged in definite rings with definite number of bundles in each ring.

- (iv) \_\_\_\_\_ endosperm is the most common type of endosperm in angiosperms.
- (v) In monocot stem the vascular bundles are conjoint, collateral, endarch and \_\_\_\_\_.
- (vi) Branched star shaped sclereids are called \_\_\_\_\_.  
6x1=6

(B) Multiple choice questions :

- (i) Vascular bundle having the phloem strands on both outer and inner side of xylem is called :  
(a) Bicollateral  
(b) Collateral  
(c) Concentric  
(d) None of these
- (ii) Histogen theory was given by :  
(a) Nageli  
(b) Hainstein  
(c) Schmidt  
(d) Popham
- (iii) Mechanical barrier to prevent self pollination and promote cross pollination is :  
(a) Heterostyly  
(b) Dicliny oo  
(c) Herkogamy  
(d) Dichogamy

(iv) Special type of fleshy buds in aquatic plants for vegetative propagation are called :

- (a) Turions
- (b) Bulbils
- (c) Runners
- (d) Suckers

(v) Dispersal of seeds through water is called :

- (a) Zoochory
- (b) Hydrochory
- (c) Autochory
- (d) Anemochory

(vi) Salvia showing Lever mechanism is usually pollinated by :

- (a) Bats
- (b) Birds
- (c) Insects
- (d) Water

6x1=6

## **UNIT-I**

2. Describe the structure and function of phloem. 6

3. Write short notes on :

(a) Periderm

(b) Tunica Corpus Theory.

3,3

## **UNIT-II**

4. With the help of suitable diagram, describe the anomalous structure of *Nyctanthes* stem. 6
5. Explain briefly about micropropagation. 6

## **UNIT-III**

6. Define self pollination and its types. Give advantages and disadvantages of self pollination. 6
7. What is meant by Anemophily ? Give the characters of anemophilous. flowers. 6

## **UNIT-IV**

8. Write notes on the following :
  - (a) Parthenocarpy
  - (b) Significance of seed. 3,3
9. Explain the process of embryo development in a typical dicot plant. 6