

[ 4 ]

Or

Write a note on Tissue and Tissue system.

2. Describe wood development in relation to environmental factors.

Or

What do you understand by anomalous secondary growth ? Describe anomalous secondary growth of any one member you have studied.

3. Describe briefly morphological and ecological adaptations in xerophytes.

Or

Write a note on senescence.

4. Write a note on oil yielding plants and their economic importance.

Or

Write a note on medicinal plants.

★ ★ ★ ★ ★ c ★ ★ ★ ★ ★

G-3/309/21

Roll No.....

## M.Sc. III Semester Examination, April-2021

### BOTANY

#### Paper I

(Plant Development and Plant Resources)

Time : 3 Hours ]

[Maximum Marks : 80

**Note** : All questions are compulsory. Question Paper comprises of 3 sections. **Section A** is objective type/Multiple Choice questions with no internal choice. **Section B** is short answer type with internal choice. **Section C** is long answer type with internal choice.

#### SECTION 'A'

1×8=8

(Multiple Type Questions)

Choose the correct answer :

1. Root hair arise from :  
(a) Epiblema (b) Cortex  
(c) Endodermis (d) Pericycle.
2. The living element in the xylem tissue is :  
(a) Tracheids (b) Vessels  
(c) Xylem parenchyma (d) Xylem fibres.

[ 2 ]

3. The Tunica Corpus theory of short apical meristem was proposed by :

- (a) Schmidt (b) Hanstein  
(c) Nageli (d) Clowes

4. Cortical vascular bundles are found in :

- (a) Nyctanthes (b) Cucurbita  
(c) Bignonia (d) Helianthus

5. The ground tissue of the leaf is known as :

- (a) Mesophyll (b) Cataphyll  
(c) Chlorophyll (d) Veins

6. Arrangement of leaves on the stem and branches is called :

- (a) Node (b) Leaf base  
(c) Phyllotaxy (d) Venation

7. The botanical name of soyabean is :

- (a) Glycine max (b) Arachis hypogaea  
(c) Ricinus communis (d) Cocos nucifera

8. Fibre yielding plant is :

- (a) Triticum (b) Pennisetum  
(c) Gossypium (d) Rauwolfia

**G-3/309/21**

[ 3 ]

**SECTION 'B'**

**4×6=24**

*(Short Answer Type Questions)*

**Note :** Answer the following questions in 250 words.

1. Write a brief note on seed germination.

Or

Define seed dormancy. What are the causes of seed dormancy?

2. Write a note on vascular cambium.

Or

Describe secondary growth in any dicot stem you have studied.

3. Describe briefly Ecological adaptations in Hydrophytes.

Or

Phyllotaxy.

4. Write a note on economic importance of cereals.

Or

Write a note on origin, distribution and economic importance of any one fibre yielding crop.

**SECTION 'C'**

**12×4=48**

*(Long Answer Type Questions)*

**Note :** Answer the following questions in 500 words.

1. Describe Root-microbe interaction.

**G-3/309/21**

P. T. O.