



M.Sc. 3rd Semester
Examination, March-April 2021

BOTANY

Paper - I

Plant Development and Plant Resources

Time : Three Hours] [*Maximum Marks : 80*
[*Minimum Pass Marks : 16*

Note : Answer **all** questions. All questions carry equal marks.

Unit-I

1. What is seed dormancy? Describe the various methods of overcoming seed dormancy.

OR

Write notes on any **two** of the following:

- (a) Programmed cell death (PCD)
- (b) Seed germination
- (c) Root microbial interaction

(2)

Unit-II

2. Describe wood development in relation to environmental factors.

OR

Who is secondary xylem and phloem produced by the activity of cambium? Elaborate the process of secondary growth in dicot stem.

Unit-III

3. Elaborate the origin and development of leaf in plants.

OR

Write notes on any **two** of the following :

- (a) Trichomes and stomata
- (b) Mesophyll cell
- (c) Apocarpus flower development

Unit-IV

4. Write notes on any **two** of the following :

- (a) Oil yielding crops
- (b) Tannins and resins
- (c) Fodder crops

OR

(3)

Write notes on any **two** of the following :

- (a) Cultivation and uses of fibre crops
 - (b) Timber yielding plants
 - (c) Gums and dyes
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