ED-623

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

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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

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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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