



ED-624

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

BOTANY

Paper - II

Plant Ecology - I
(Ecosystem and Vegetation Ecology)

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

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

Unit-I

1. What is primary production? Describe the methods of its measurement.

OR

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

- (a) Ecological efficiency
- (b) Sedimentary cycles
- (c) Nitrogen cycle in nature

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(Turn Over)

(2)

Unit-II

2. Explain the concept of sustainable development.

OR

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

- (a) Concept of resilience
- (b) Sustainability indicators
- (c) Anthropogenic perturbations

Unit-III

3. Explain the concept of 'Ecological Niche'.

OR

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

- (a) Interspecific associations
- (b) Synthetic characters used in community analysis
- (c) Concept of continuum

Unit-IV

4. Describe the changes that takes place in the properties of ecosystem during succession.

OR

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(Continued)

(3)

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

- (a) Xerosere
 - (b) Temporal changes in vegetation
 - (c) Inhibition models
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