

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

1	7	4	5	5
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Exam. Code :

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B.A./B.Sc. (General) 5th Semester
(2125)

BOTANY

Paper : B - Plant Ecology

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt **five** questions in all. Question No. 1 is compulsory.
Select **one** question from each unit.

1. (A) **MCQ :**

(i) The species which are found in many communities are called species.

- (a) companion (b) accidental
(c) preferential (d) exclusive

(ii) Excessive accumulation of nutrients in a water body is called :

- (a) accumulation (b) eutrophication
(c) bio-magnification (d) mineralization

(iii) Cross pollination by bats is called :

- (a) ornithophily (b) anemophily
(c) chiropterophily (d) malacophily

(iv) The primary succession refers to succession.

- (a) autotrophic (b) allogenic
(c) deflected (d) progressive

(B) Fill in the blanks :

- (i) *Orobanche* is an example of parasite.
- (ii) The study of an individual species in relation to environment is called
- (iii) The first step in the formation of any succession is
- (iv) The amount of inorganic substances present in an ecosystem is called 8×1=8

UNIT—I

2. Write notes on :

- (a) Relationship of Ecology with other sciences
- (b) Soil profile and soil horizons 4,3

3. Write notes on :

- (a) Mor humus and mull humus
- (b) Proto-cooperation 3,4

UNIT—II

4. What are ecological pyramids? Discuss their various types with suitable examples. 7

5. Write notes on :

- (a) Carbon cycle
- (b) Food chain and food web 3,4

UNIT—III

6. Write notes on :

- (a) Life forms
- (b) Density cover 3,4

7. Describe :

(a) Biological Spectrum

(b) Xerosere

3,4

UNIT—IV

8. Discuss the various renewable sources of energy. How are they better compared to non-renewable sources of energy? 7

9. What is soil pollution? Discuss its various causes and the methods to control it. 7