

(i) Printed Pages: 3

Roll No. ....

(ii) Questions : 9

Sub. Code : 

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Exam. Code : 

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**B.Sc. (General) 5<sup>th</sup> Semester**

**(1129)**

**BOTANY**

**Paper—B : Plant Ecology**

**Time Allowed : Three Hours]**

**[Maximum Marks : 36**

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

1. (A) MCQ :

(i) The total amount of water available in soil is :

(a) Chresard

(b) Holard

(c) Echard

(d) None of the above

(ii) Transition zone between vegetational type is :

(a) Ecotone

(b) Ecotype

(c) Ecoline

(d) Ecosystem

(iii) The problem of excessive nutrients load in water bodies is :

(a) Biomagnification

(b) Eutrophication

(c) Flocculation

(d) None of the above

(iv) Ozone layer is present in :

- (a) Lithosphere                      (b) Troposphere
- (c) Stratosphere                      (d) Thermosphere

(v) The plants which can tolerate wide range of temperature are :

- (a) Eurythermal                      (b) Megatherm
- (c) Microtherm                      (d) Stenotherm

(vi) Which is not a quantitative character of a community?

- (a) Frequency                      (b) Density
- (c) Cover                      (d) Vitality

(B) Fill in the blanks :

- (i) Pyramid of energy is always \_\_\_\_\_ .
- (ii) \_\_\_\_\_ proposed the term Ecosystem.
- (iii) \_\_\_\_\_ is the lowermost layer of atmosphere in which living organisms exist.
- (iv) The study of group of species in relation to the environment is called \_\_\_\_\_ .
- (v) Plants growing on sand are known as \_\_\_\_\_ .
- (vi) When one of the species is benefitted while other is not harmed the association is known as \_\_\_\_\_ .

12×1=12

## UNIT—I

2. Write notes on :
  - (a) Mutualism
  - (b) Soil profile. 3,3
3. What are climatic factors ? Explain the effect of light on the growth and distribution of plants. 6

## UNIT—II

4. Write notes on :
  - (a) Carbon cycle.
  - (b) Ammonification. 4,2
5. Explain :
  - (a) Food Web
  - (b) Pyramid of Numbers. 3,3

## UNIT—III

6. Define Ecological Succession. Explain Hydrosere in detail. 6
7. Explain :
  - (a) Biological spectrum
  - (b) Life forms. 3,3

## UNIT—IV

8. Write notes on :
  - (a) Minerals as Non-Renewable Resource.
  - (b) Conservation of Natural Resources. 3,3
9. What is Air Pollution ? Describe various sources of it and what are the effects of Air Pollution ? 6