

(i) Printed Pages : 3

Roll No. ....

(ii) Questions : 9

Sub. Code : 

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Exam. Code : 

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

**1128**

**BOTANY**

**Paper —B : Plant Ecology**

**Time Allowed : Three Hours]**

**[Maximum Marks : 36**

**Note :-** Attempt **five** questions in all, selecting **one** question from each Unit. Question No. I is compulsory. Draw diagrams where required.

1. (a) MCQs :—

(i) Liquid Sodium is used as coolant in \_\_\_\_ reaction :

- (a) Fast breeder
- (b) Heavy water
- (c) Light water
- (d) None.

(ii) The study of an individual species in relation to environment is called :

- (a) Autecology
- (b) Synecology
- (c) Both
- (d) None

(iii) Plants growing in calcareous soils are known as :

- (a) Calcifuges
- (b) Calcicoles
- (c) Calciphobia
- (d) None

- (iv) The shape of pyramid of Biomass in Aquatic system is :
- (a) Spindle shaped
  - (b) Upright
  - (c) Inverted
  - (d) None
- (v) The air borne suspension which is smaller than  $1\text{ }\mu\text{m}$  are known as :
- (a) Dust
  - (b) Aerosol
  - (c) Mist
  - (d) None
- (vi) The problem of excessive nutrient in water bodies is known as :
- (a) Eutrophication
  - (b) Biomagnification
  - (c) Bioaccumulation
  - (d) None
- (b) Fill in the blanks :—
- (vii) The pollination by ants is known as \_\_\_\_\_.
  - (viii) Epiphytes are also known as \_\_\_\_\_.
  - (ix) The succession occurring in sand is known as \_\_\_\_\_.
  - (x) The drift layer is present in \_\_\_\_\_ horizon.
  - (xi) The air borne suspensions which are larger than  $1\text{ }\mu\text{m}$  are known as \_\_\_\_\_.
  - (xii) The energy which is stored at consumer level is known as \_\_\_\_\_.

$12 \times 1 = 12$

## UNIT—I

2. Write an account on :  
(a) Soil profile 3  
(b) Difference between Clay soil and Loam soil. 3
3. Write note on :—  
Give a detailed account on effect of light on distribution, growth and physiology of plants. 6

## UNIT—II

4. Write notes on :—  
(a) Ecological Pyramid of number. 3  
(b) Food Web. 3
5. Write account on :—  
(a) Structure of Ecosystem. 3  
(b) Detritus food chain. 3

## UNIT—III

6. What is Succession ? Describe Hydrosere in detail with examples and diagrams. 6
7. Write notes on :—  
(a) Life forms. 3  
(b) General process of succession. 3

## UNIT—IV

8. Write an account on :—  
(a) Global Warming. 3  
(b) Chipko Movement. 3
9. Describe renewable resources of energy in detail. 6