

(i) Printed Pages : 3 Roll No.

(ii) Questions : 9 Sub. Code :

| | | | | |
|---|---|---|---|---|
| 1 | 7 | 4 | 5 | 5 |
|---|---|---|---|---|

Exam. Code :

| | | | |
|---|---|---|---|
| 0 | 0 | 0 | 5 |
|---|---|---|---|

B.A./B.Sc. (General) 5th Semester
(2124)

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

(a) The ecosystem maintains a functional balance among its various components. This is called :

- | | |
|------------------|--------------------|
| (a) Accumulation | (b) Eutrophication |
| (c) Homeostasis | (d) Balancer |

(b) The water which is kept adsorbed or imbibed over the soil particles is called :

- | | |
|-------------------------|-----------------------|
| (a) Capillary water | (b) Hygroscopic water |
| (c) Gravitational water | (d) Surface run off |

(c) When in strong light, chloroplasts move towards longitudinal walls of cells, the process is called :

- | | |
|----------------|-----------------------|
| (a) Epistrophe | (b) Parastrophe |
| (c) Apostrophe | (d) None of the above |

(d) The shape of pyramid of energy in an aquatic ecosystem is :

- (a) Upright
- (b) Inverted
- (c) Spindle
- (d) None of the above

(B) Fill in the blanks :

- (a) Term Ecosystem was coined by _____.
- (b) The study of an individual species in relation to environment is called _____.
- (c) Elfin scrubs are the plants growing below the _____.
- (d) The total photosynthesis in a vegetation is called _____. 8×1=8

UNIT—I

2. Write notes on :

(a) Heliophytes and Sciophytes.

(b) Photoperiodism.

3,4

3. Discuss the role of various biotic factors on the growth and distribution of plants.

7

UNIT—II

4. Discuss :

(a) Productivity of an ecosystem.

(b) Nitrogen cycle.

3,4

5. Write notes on :

(a) Biotic and abiotic components.

(b) Ammonification.

4,3

UNIT—III

6. Explain :
- (a) Life forms.
 - (b) Biological Spectrum. 4,3
7. Describe :
- (a) Frequency.
 - (b) Xerosere. 3,4

UNIT—IV

8. What is water pollution ? Discuss the causes, effects and ways to control it. 7
9. Write notes on :
- (a) Conservation of natural resources.
 - (b) Photochemical smog. 4,3