(i) Printed Pages : 4]

:91

(ii) Questions

Roll No	•••••	•••••	•••••	•••••
Sub. Code :	0	4	5	5
Exam. Code :	0	0	0	5

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

# 1127

# BOTANY (Plant Ecology) Paper : B

## Time : 3 Hours]

## [Max. Marks: 36

- Note :- Attempt *five* questions in all. Question No. 1 is compulsory. Attempt *four* more questions selecting *one* from each Unit. Draw diagrams where necessary.
- 1. (A) Fill in the blanks :

  - (ii) The amount of water available to the plant roots for absorption is known as ......
  - (iii) Flow of energy declines from lower to higher trophic level in ecosystem is mainly

NA-90

(1)

Turn Over

explained by ..... law of thermodynamics.

- (iv) Term ecology was coined by ......
- (v) The last succession in a sere is known as
- (B) Multiple Choice Questions :
  - (i) All the living organisms on the earth constitute :
- (a) Biosphere (b) Community
- (c) Biome (d) Association

(ii) Least porus soil is :

(a) Loam	(b)	Clay
(c) Sandy	(d)	Peaty

(iii) If all the green plants disappear from the earth :

(a) All the animals will die

- (b) Only insect will die
- (c) Only herbivores will die
- (d) It will make no difference to animals

**NA-90** 

(2)

- (iv) Most of the plants obtain their nitrogen from the soil in the form of :
  - (a) HNO<sub>3</sub>
  - (b) Nitrate
  - (c) Free nitrogen gas
  - (d) Nitrogen oxide
- (v) Lichens do not like to grow in cities :
  - (a) Because of absence of the right type of algae and fungi
  - (b) Because of lack of moisture
  - (c) Because of SO<sub>2</sub> pollution
  - (d) Because natural habitat is missing
- (vi) BOD of a river was found to be very low, this means water :
  - (a) Was clean
  - (b) Was polluted
  - (c) Contains algae
  - (d) Contains other Dissolved minerals  $6 \times 1 = 6$

#### Unit-I

- What are basic concepts of ecology ? Also discuss the scope of ecology.
  6
- 3. Write short notes on the following :
  - (a) Lithosphere
  - (b) Sciophytes
  - (c) Field capacity.

**NA-90** 

(3)

 $3 \times 2 = 6$ 

Turn Over

# Unit-II of to the Unit-II of the teol of the Unit-II

- 4. What are ecological pyramids ? Describe the pyramids of number, biomass and energy with illustrated diagrams.
- 5. Write notes on the following :
  - (a) Food chains and trophic levels.
  - (b) Productivity of ecosystem.
  - (c) Nitrogen cycle.  $3\times 2=6$

6

6

6

6

6

## Unit-III

- 6. What is community ? Write down its important principles.
- 7. What is succession ? How is it formed on any area ? Describe xerosere in detail.

#### Unit-IV

- 8. What is water pollution ? Describe various sources of it. What are the various methods of the treatment of sewage ?
- 9. What are minerals ? Describe mineral resources and their conservation.

**NA-90**