

Roll No.

(12/19-II)

5245

B. Sc. EXAMINATION

(Fifth Semester)

BOTANY

Second Paper

Ecology

Time : Three Hours

Maximum Marks : 40

Note : *Five* questions to be attempted in all, selecting *two* questions from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

1. (a) Define Ecology. $1 \times 8 = 8$
(b) What is timber or tree line.

- (c) Total amount of water present in the soil is called.....
- (d) Define Biotic Potential.
- (e) Define Vital Index.
- (f) Define Sociability in Plant Community.
- (g) Blue baby syndrome is caused by.....
- (h) Name the synthetic gas responsible for depletion of Ozone layer.

Unit I

- 2. What is Soil ? Discuss its composition and profile. 8
- 3. Write short notes on the following : 4+4=8
 - (a) Plants adaptation to salinity stress.
 - (b) Commensalism.
- 4. Write notes on the following : 4+4=8
 - (a) Growth curves
 - (b) Levels of organisation.

5. Write notes on the following : $4+4=8$

- (a) Population Density
- (b) Population Mortality.

Unit II

6. Define Ecological Succession and describe the successional stages of Hydrosere. 8

7. Discuss Nitrogen Cycle in Nature. 8

8. Write notes on the following : $4+4=8$

- (a) Biomagnification
- (b) Ecological Pyramids.

9. Write short notes on the following : $4+4=8$

- (a) Ozone depletion
- (b) Different sources of Air Pollution.