Roll No.

(12/24)

5245

B. Sc. EXAMINATION

(Fifth Semester)

(For Batch 2011 & Onwards)

BOTANY

Paper-II

Ecology

Time: Three Hours

Maximum Marks: 40

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

1. Define the following:

8×1=8

- (a) Who coin the term ecology?
- (b) Synecology
- (c) Secondary pollutants
- (d) Edaphic factor

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P.T.O.

Perfect cycle **Ephemerals** Primary succession Phenology. Unit I How the physiology of plants is affected by environmental temperature? Explain. Describe the adaptions of the plants to extreme temperature. 4+4=8 Describe the effect of topography composition of vegetation in an area. 4. Write notes on the following: 4+4=8 Commensalism (a) Categories of xerophytes. B-5245

Write notes on the following: 3+2+3=8 Growth curve in population Predation Mutualism. Unit II Describe the following: 2+3+3=8 Dominance (b) Association index (c) Fresh water pond as an ecosystem. Define ecological pyramids. Give its various types. Write notes on the following: 2+2+4=8 (a) Phosphorus cycle

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- (b) Carbon dioxide fertilization effect
- (c) Climax vegetation in a succession process.
- 9. What is Phytogeography? Describe the major phytogeographical regions of India. 8

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