

B.Sc. (Part-I) (NEP) Semester-II  
**BSCES601 Core Group - Environmental Science - Ecology**

P. Pages : 2

Time : Two Hours



**GUG/S/25/16767**

Max. Marks : 40

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Notes : 1. All questions are compulsory and carry equal marks.

1. Describe modern branches of ecology. 8

**OR**

a) Explain light as an environmental abiotic factor. 4

b) Discuss mutualism interaction among organisms. 4

2. Describe characteristics of population w.r.t. dispersion and migration. 8

**OR**

a) Explain the age structure of population. 4

b) Discuss characteristics of community w.r.t. community structure. 4

3. Describe grazing food chain. 8

**OR**

a) Explain types of ecosystems. 4

b) Explain oxygen cycle with a neat sketch. 4

4. Describe characteristic features of fresh water ecology. 8

**OR**

a) Explain impact of anthropogenic perturbation on ecosystem. 4

b) Briefly explain the types of adaptations. 4

5. Answer in brief **any eight**. 8

a) What is commensalism?

b) What is ecology?

- c) Write about microclimate.
- d) Define community ecology.
- e) What are key stone species?
- f) Define ecological succession.
- g) What is secondary productivity?
- h) What is primary productivity?
- i) Define biogeochemical cycle.
- j) Define ecological indicators.
- k) What is the plant invasion?
- l) What are climax communities?

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