

M.Sc.- II (Zoology) (CBCS Pattern) Sem-III  
**PSCZOOT10-8 Paper-X Special Group : Environmental Biology Paper-I :**  
**Ecosystem and Communities**

P. Pages : 1

Time : Three Hours



**GUG/W/22/11314**

Max. Marks : 80

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

1. Give detail account of the energy flow. 16

**OR**

Write notes on:

- a) Food Chain.
- b) Biotic & abiotic components of ecosystem.

2. Describe in detail the nature, distribution and analysis of Benthos. 16

**OR**

Write notes on:

- a) Eutrophication.
- b) Nitrogen and Sulphur cycle.

3. Give an account of ecological succession. 16

**OR**

Write notes on:

- a) Ecological niche.
- b) Ecotone & edge effect.

4. Explain in detail the biometeorology. 16

**OR**

Write notes on :

- a) Biosphere.
- b) Soil as essential factor for meteorological studies.

5. Attempt the following. 16

- a) Quantitative estimation of zooplanktons.
- b) Carbon cycle.
- c) Factors affecting productivity.
- d) Radiant energy.

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