

M.Sc. (Part-I) (Environmental Science) (NEP Pattern) Semester-I
NEP-43 / PMENVT03 - Ecology

P. Pages : 1

Time : Three Hours



GUG/W/24/15096

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate the answers with suitable diagrams and examples.

1. Explain temperature and light as limiting factors. 16

OR

- a) Discuss biotic potential and carrying capacity. 8
b) Explain Liebig's law of minimum and Shelford's law of Tolerance. 8

2. Discuss positive interactions among organisms. 16

OR

- a) Briefly explain ecological classification of fresh water habitat. 8
b) Discuss characteristics of fresh water habitat. 8

3. Briefly explain characteristics of population. 16

OR

- a) Explain the process of ecological succession. 8
b) Explain characteristic of community w.r.t. dominance and stratification. 8

4. Discuss biogeochemical cycle w.r.t. phosphorus and sulphur cycle. 16

OR

- a) Briefly explain ecological pyramids. 8
b) Write an explanatory note on measurement of productivity. 8

5. a) Explain humidity as a limiting factor. 4

b) What is amensalism? Explain it. 4

c) Explain concept of carrying capacity. 4

d) Write a note on ecological indicator. 4
