

M.Sc. (Part-I) (Environmental Science) (CBCS Pattern) Semester-I
PSENV T03 - Paper-III - Ecology

P. Pages : 1

Time : Three Hours



GUG/W/24/11160

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. Discuss light as a limiting factor. 16

OR

a) Explain Shelford's law of tolerance. 8

b) Describe fire as a limiting factor. 8

2. Discuss ecological classification of freshwater habitat. 16

OR

a) Explain beneficial and harmful effects of plankton. 8

b) Describe mutualism with example. 8

3. Explain patterns of succession. Give significance of ecological succession. 16

OR

a) Describe characteristic of community w.r.t. structure. 8

b) Explain ecotone and edge effect. 8

4. Describe nitrogen cycle. 16

OR

a) Explain pyramid of biomass. 8

b) Discuss energy flow in an ecosystem. 8

5. a) Write objectives of ecology. 4x4 =16

b) Explain characteristics of fresh water habitat.

c) Describe concept of carrying capacity.

d) Write note on ecological indicators.
