

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

P. Pages : 1

Time : Three Hours



GUG/W/23/11160

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 temperature and light as limiting factors. 16

OR

a) Explain Liebig's law of minimum and Shelford's of tolerance. 8

b) Discuss subdivisions of ecology. 8

2. Explain ecological classification of freshwater habitat. 16

OR

a) Discuss mutualism as positive interaction. 8

b) Explain negative interaction with respect to exploitation. 8

3. Discuss characteristics of population w.r.t. natality, mortality and dispersion. 16

OR

a) Explain patterns of ecological succession. 8

b) Discuss growth and structure as a community characteristic. 8

4. Explain in detail nitrogen cycle. 16

OR

a) Describe ecological indicators with suitable examples. 8

b) Explain carbon cycle with neat sketch. 8

5. a) Explain objectives of ecology. 4

b) Describe beneficial and harmful effects of plankton. 4

c) Explain significance of ecological succession. 4

d) Describe pyramid of number. 4
