

B.Sc.(Part-I) (CBCS Pattern) Semester - I
USENVT02 - Environmental Science Paper-II (Ecology)

P. Pages : 1

Time : Three Hours



GUG/S/23/11551

Max. Marks : 50

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

1. Describe abiotic factors of the environment. 10
- OR**
- a) Discuss mutualism with suitable examples. 5
b) Explain Shelford's law of Tolerance 5
2. Define community. Discuss its characteristics. 10
- OR**
- a) Describe types of ecological succession. 5
b) Explain the significance of ecological succession. 5
3. State types of ecosystems. Describe forest as an ecosystem. 10
- OR**
- a) Give fundamental aspects of productivity. 5
b) Write a short note on Nitrogen cycle. 5
4. Discuss adaptation in plants. 10
- OR**
- a) State importance of coloration with example. 5
b) Describe Batesian mimicry. 5
5. Answer in brief **any ten**. 10
- a) Define ecology.
b) What do you mean by antibiosis?
c) Describe biotic factors of environment in short.
d) Define population ecology.
e) What do you mean by Key stone species?
f) What is Xerosere?
g) What is secondary productivity?
h) How biogeochemical cycles are classified?
i) How do you measure productivity?
j) Give example of adaptation in desert animals.
k) How coloration is used for warning.
l) Define bio-mimicry.
