

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

P. Pages : 1

Time : Three Hours



**GUG/W/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. Discuss fire and wind as environmental factors. 10  
**OR**  
a) State the modern branches of ecology. Add a note on scope of ecology. 5  
b) Describe with suitable examples negative interactions among organisms. 5
2. Define community ecology. Explain the characteristics of community. 10  
**OR**  
a) Give an account on the age distribution of population. 5  
b) Explain the general process of ecological succession. 5
3. Describe the structure and function of an ecosystem. 10  
**OR**  
a) With a neat sketch explain the oxygen cycle. 5  
b) Define productivity. How it is measured for a pond ecosystem? 5
4. What are the types of adaptations? Explain adaptations in plants. 10  
**OR**  
a) What are the causes of colouration? State its importance. 5  
b) What is bio-mimicry? Write a short note on Batesian and Mullerian mimicry. 5
5. Answer in 2-3 sentences **any ten**. 10  
a) State sub-division of ecology.  
b) Give examples of mutualism.  
c) State Liebig's Law of Minimum.  
d) What are the types of dispersion?  
e) What are keystone species?  
f) What is xerosere?  
g) What is lentic ecosystem?  
h) What NPP stands for?  
i) Define biogeochemical cycle.  
j) Give examples of mesophytes.  
k) What is camouflage?  
l) State causes of mimicry.

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