

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

P. Pages : 1

Time : Three Hours



GUG/W/24/11551

Max. Marks : 50

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

1. Define environmental factors. Discuss fire as an environmental factor. **10**
OR
a) State the modern branches of ecology. Discuss the scope of ecology. **5**
b) With suitable examples describe negative interactions. **5**
2. Describe the characteristics of population. **10**
OR
a) Give an account on ecotone and edge effect. What are keystone species? **5**
b) Describe the types of ecological succession. **5**
3. What are ecological pyramids? Discuss ecological pyramid of number and biomass. **10**
OR
a) Explain the harvest method for the measurement of productivity. **5**
b) With a neat sketch describe phosphorous cycle. **5**
4. Discuss the adaptations in plants. **10**
OR
a) State biological significance of colours. Add a note on valuable colours. **5**
b) What are the causes of mimicry? How evolution of mimicry took place? **5**
5. Answer in 2-3 sentences **any ten**. **10**
a) Define ecology.
b) State Liebig's law of minimum.
c) Give example of mutualism.
d) What is community dominance.
e) How population density is estimated?
f) Name the pioneer community in hydrosere.
g) State example of grazing food chain.
h) Give full form of GPP.
i) Define biogeochemical cycle.
j) State adaptations in desert animals.
k) What is camouflage?
l) Why protective mimicry is important?
