



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

1. Discuss any two types of positive interactions among organisms with examples. **10**

OR

Define community. Describe any two characteristics of community ecology.

2. What are ecological pyramids? Explain pyramids of number and biomass. **10**

OR

Describe adaptations in aquatic animals.

3. a) Describe wind as an environmental factor. **2½x4=10**
b) Write about ecotone and edge effect.
c) How productivity is measured by harvest method?
d) Explain protective mimicry with examples.

OR

- e) Give the modern branches of ecology. **2½x4=10**
f) Write significance of ecological succession.
g) What are the types of ecosystem?
h) How coloration is used for warning and signalling.

4. a) Explain Liebig's Law of minimum. **2½x4=10**
b) Discuss age structure of population.
c) Explain light and dark bottle method for the measurement of productivity.
d) What are the different causes of coloration.

OR

- e) What is the scope of ecology? **2½x4=10**
f) Explain the concept of carrying capacity.
g) With the help of sketch explain oxygen cycle.
h) Elaborate the terms-protective mimicry and biomimicry.

5. Answer in 2-3 lines **any ten**. **10**

- a) Give objectives of ecology.
- b) State the Shelford's law of tolerance.
- c) Give the examples of antibiosis.
- d) What are keystone species?
- e) Define natality of population.
- f) What is migration of population?
- g) Define GPP.
- h) Give the components of grassland ecosystem.
- i) What is sedimentary cycle?
- j) Give any two examples of hydrophytes.
- k) What is camouflage?
- l) What are xerophytes?
