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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 light and pressure as limiting factors with the help of examples. **16**

**OR**

a) What is biotic potential and carrying capacity? **8**

b) explain in detail the scope of ecology. **8**

2. Discuss mutualism and commensalism as biotic interactions with the help of examples. **16**

**OR**

a) Describe beneficial and harmful effects of plankton. **8**

b) explain characteristics of fresh water habitat. **8**

3. Discuss in brief characteristics of community ecology. **16**

**OR**

a) Describe natality and mortality as characteristics of population ecology. **8**

b) Explain the process of ecological succession. **8**

4. Discuss biogeochemical cycle w.r.t. oxygen and carbon. **16**

**OR**

a) Briefly explain ecological pyramids. **8**

b) Discuss natural and anthropogenic impacts on ecosystem. **8**

5. a) Write a note on Liebig's law of Minimum. **4**

b) Explain benthos as an indicator of water quality. **4**

c) Explain the significance of ecological succession. **4**

d) Write about abiotic and biotic components of the ecosystem. **4**

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