

Mode of Examination : **Online**
Unique Paper Code : 32231102-LOCF
Name of the Course : B.Sc. (Hons.) Zoology Examination-2021
Name of the Paper : **PERSPECTIVES IN ECOLOGY**
Semester : Ist
Duration : 3 Hours
Maximum Marks : 75

This paper contains SIX questions

Answer four questions in all

All questions carry equal marks (18.75)

Q. 1. Explain Leibeig's Law of Minimum, and Shelford's Law of Tolerance. With the help of diagram explain the thermal stratification in a temperate lake. (18.75)

Q. 2. What are ecotones and why do you find more species diversity in the ecotones ? Mark the ecotones in the vertically stratified communities by giving one example each from an aquatic ecosystem and a terrestrial ecosystem. Explain why the ecotones are fragile in nature. (18.75)

Q.3. What is the effectiveness of the different methods used for the conservation of Biodiversity and its management? Elaborate on any conservation plan of a species by the Government of India. (18.75)

Q.4. What is nitrogen fixation? Describe in detail the Nitrogen cycle by stating its reservoir in nature, biological importance and the pathways. (18.75)

Q.5 Populations are dynamic entities and exhibit regulated growth rates. Discuss the factors regulating population growth rates. (18.75)

Q.6. In a prey-predator system, how do predator responds to changing prey density? (18.75)
