

M.Sc(Environmental Sci.) Semester - 1 (CBCS) Examination**JAN/FEB-2022****Environmental Biology(Ecology)****Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
-

- Que. 1 Answer the Following. (Any seven out of ten question.) (14)
(1) Define ecology.
(2) Explain in very short laws of thermodynamics.
(3) Role of microbes in nutrient cycles.
(4) List out fauna of desert.
(5) Explain types of ecological pyramids.
(6) Describe edge effect with examples.
(7) Which are the limiting factors?
(8) Explain Azolla.
(9) What is Ammensalism?
(10) What is heterocyst? Write its function.
- Que. 2 Answer the Following. (Any two out of three) (14)
(1) Describe gaseous cycles, hydrological cycles and sediment cycles.
(2) Explain scope of ecology in detail.
(3) Write about Energy in ecosystem, concept of productivity and trophic levels.
- Que. 3 Make a note on the followings. (14)
(1) Species interactions.
(2) Estuarine and terrestrial habitats.
- Que. 4 Answer the Following. (14)
Answer any two out of three. [10]
(1) Types of biodiversity.
(2) Causes of Biodiversity loss.
(3) Rare and endangered species.
Answer any one out of two. [4]
(1) Ecological role of biodiversity.
(2) Protected areas and protected species.
- Que. 5 Write short note on any two out of four. (14)
(1) Rhizobium and Azotobacter.
(2) Interaction of microbes with animals.
(3) Natural environment of microorganism: terrestrial and aquatic.
(4) Extreme environments and life existing there.
