

M.Sc(Environmental Sci.) Semester - 1 (CBCS) Examination**Nov/Dec-2023****Environmental Biology(Ecology)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que. 1 Answer the Following. (Any seven out of ten questions.) (14)

- (1) Define concept of Ecology.
- (2) Explain trophic levels.
- (3) What is the impact of hydrological cycles on environment?
- (4) Give examples of edge effect.
- (5) Draw an inverse pyramid of number, explain it.
- (6) Define Habitat.
- (7) What is the importance of the "Red Data Book".
- (8) Explain any conservation practice.
- (9) Write about rhizobium.
- (10) What is the role of soil bacteria?

Que. 2 Answer the Following. (Any two out of three) (14)

- (1) Describe scope of Ecology.
- (2) Write laws of thermodynamics.
- (3) Write about food web and trophic levels.

Que. 3 Answer the Following. Make a note on the following. (14)

- (1) Estuarine Habitat [5]
- (2) Species interaction [5]
- (3) Ecological pyramids [4]

[OR]

Que. 3 Make a note on the followings.

- (1) Predation and parasitism.
- (2) Marine and terrestrial habitats.

Que. 4 Answer the Following. (14)

Answer any two out of three.

- (1) Biodiversity and its importance. [10]
- (2) Why we are losing biodiversity?
- (3) Endangered species.

Answer any one out of two.

- (1) Conservation of biodiversity. [04]
- (2) Write about National Park and species found there.

Que. 5 Write a short note on any two out of four. (14)

- (1) Interaction of microbes with animals.
- (2) Interaction of microbes with other microbes.
- (3) Terrestrial and aquatic environment of microorganisms.
- (4) Azospirillum, Cyanobacteria and Azolla.
