

**End Semester Examination (2021-22)-Odd Semester****M.Sc.(Environmental Science) – I Year (I Sem)****Course Name: Environmental Biology****Code: MCE1008****Time: 02 Hours****Max Marks: 60****University Roll No.****(To be filled by the Student)****Note: Please read instructions carefully:**

- a) The question paper has 03 sections and it is compulsory to attempt all sections.  
 b) All questions of Section A are compulsory; questions in Section B and C contain choice.

<b>Section A: Very Short Answer Type Questions</b>		<b>BL</b>	<b>CLO</b>	<b>Marks (10)</b>
<b>Attempt all the questions.</b>				
1.	Draw a food web in a pond ecosystem.	BL1	CLO4	02
2.	What are the components of the ecosystem?	BL1	CLO2	02
3.	What are the threatened species in India?	BL1	CLO1	02
4.	Explain ecotone, edge effects, ecological niche and ecosystem stability.	BL2	CLO1	02
5.	Define microbes as anti-microbial agents.	BL1	CLO1	02
<b>Section B: Short Answer Type Questions</b>		<b>BL</b>	<b>CLO</b>	<b>Marks (30)</b>
<b>Attempt any 03 out of 05 questions.</b>				
1.	Enumerate the list of critically endangered species in India as per IUCN Red List 2019-2021.	BL4	CLO1	10
2.	Discuss the classification of biomes, major biotic elements of each biome, and their characteristics.	BL2	CLO2	10
3.	Distinguish between exponential and logistic population growth. Give the equations for each.	BL4	CLO3	10
4.	Differentiate between afforestation and deforestation?	BL4	CLO1	10
5.	Explain the ecological status of forests and arid lands, and their conservation in India.	BL2	CLO2	10

<b>Section C: Long Answer Type Questions/Case Study</b> <b>Attempt any 01 out of 04 questions.</b>		<b>BL</b>	<b>CLO</b>	<b>Marks (20)</b>
1.	Discuss the bio-geochemical cycles? Explain with the help of a diagram of the carbon cycle.	BL6	CLO3	20
2.	Elaborate on the factors influencing wildlife management such as habitats, population, behavior, food habits, & health.	BL6	CLO2	20
3.	Write an essay on forest conservation. Explain the sustainable development and Agenda 21.	BL5	CLO3	20
4.	Explain the major types of life would exist on the earth today if organisms that produce biomass by photosynthesis had not developed.	BL5	CLO4	20