

SHRI RAMSWAROOP MEMORIAL UNIVERSITY

End Semester Examination (2021-22)-Odd Semester

M. Tech (Environmental Engineering) – I Year (I Sem)

Course Name: Introduction to Environment: Ecology and Ecosystem

Code: MCE1001/1001P

Time: 02 Hours

Max Marks: 60

University Roll No.

(To be filled by the Student)

Note: Please read instructions carefully:

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

Section A: Very Short Answer Type Questions Attempt all the questions.		BL	CLO	Marks (10)
1.	What is the difference between afforestation and deforestation?	BL1	CLO1	02
2.	Explain Linderman's law of 10%.	BL2	CLO2	02
3.	What are biosphere reserves?	BL1	CLO1	02
4.	What do you understand by Industrial Symbiosis (IS)?	BL1	CLO1	02
5.	Define resources? Explain different types of resources.	BL1	CLO1	02
Section B: Short Answer Type Questions Attempt any 03 out of 05 questions.		BL	CLO	Marks (30)
1.	What main types of life would exist on the earth today if organisms that produce biomass by photosynthesis had not developed?	BL1	CLO1	10
2.	Discuss the Environmental protection Act in detail.	BL2	CLO2	10
3.	Explain the endangered, Endemic, and Extinct Species of India.	BL2	CLO2	10
4.	Outline the essential elements for plants? Give examples and discuss their significance.	BL2	CLO2	10
5.	Describe the productivity of an ecosystem.	BL2	CLO2	10
Section C: Long Answer Type Questions/Case Study Attempt any 01 out of 04 questions.		BL	CLO	Marks (20)
1.	Distinguish between exponential and logistic population growth. Give the equations for each.	BL4	CLO4	20
2.	Discuss the biogeochemical cycles. Explain with the help of a diagram of the nitrogen cycle.	BL6	CLO2	20

3.	Elaborate the term ecological pyramids. Explain why some of these pyramids are upright while others are inverted in different ecosystems.	BL6	CLO1	20
4.	Explain the models of energy flow in an ecosystem.	BL5	CLO2	20
