

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)

CLASS: B.Tech
BRANCH: CSE/AI ML/ECE/EEE

SEMESTER : I/ADD
SESSION : MO/2025

SUBJECT: CE24101 ENVIRONMENTAL SCIENCE

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1(a)	Justify that energy pyramids can never be inverted.	[2]	1 2
Q.1(b)	Classify the types of food chains with examples.	[3]	1 2
Q.2(a)	Differentiate between Net Primary Productivity and Gross Primary Productivity.	[2]	1 2
Q.2(b)	Discuss regulating and provisional services of the ecosystem with examples.	[3]	1 1
Q.3(a)	Discuss the types of biodiversity.	[2]	1 2
Q.3(b)	Categorize different types of air pollutants with suitable examples.	[3]	1 2
Q.4(a)	Clarify the concept of Air Quality Index.	[2]	2 1
Q.4(b)	Explain the effects of air pollution in brief.	[3]	2 2
Q.5(a)	Explain how tropospheric ozone is formed.	[2]	2 1
Q.5(b)	Describe the principles of fabric filters and electrostatic precipitators used for the removal of particulate matter.	[3]	2 2

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