

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

CLASS: BTECH/BHMCT/BSC/IMSC  
BRANCH: BT/CHEMICAL/CE/ME/PIE/FT/HMCT/CHEMISTRY/MATHS/PHYSICS/QEDS

SEMESTER : II/ADD  
SESSION : SP/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)	Classify the types of ecological pyramids.	[2] 1	1
Q.1(b)	Discuss the about the ecological services in brief.	[3] 1	2
Q.2(a)	Classify different types of ecosystems.	[2] 1	1
Q.2(b)	Draw and discuss nitrogen cycle briefly.	[3] 1	2
Q.3(a)	Discuss the sources and effects of gaseous air pollutants.	[2] 2	2
Q.3(b)	Explain the acid rain phenomena.	[3] 2	2
Q.4(a)	Explain the principle of cyclone separators.	[2] 2	2
Q.4(b)	Discuss the principle and working of electrostatic precipitators.	[3] 2	2
Q.5(a)	Describe the different causes of water pollution.	[2] 3	2
Q.5(b)	Discuss the health effects of water pollution.	[3] 3	2

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