

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2023)

CLASS: B.TECH/BHMCT/BSC./IMSC
BRANCH: BT/CHEMICAL/CIVIL/MECH/PIE/FT/HMCT/CHEMISTRY/CQEDS/MATHS/PHYSICS

SEMESTER: II
SESSION: SP/2024

SUBJECT: CE101 ENVIRONMENTAL SCIENCE

FULL MARKS: 25

TIME: 02 Hours

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

		CO	BL
Q.1(a)	Explain how the sunlight is the central component of ecological sustenance?	[2] 1	1
Q.1(b)	Describe different types of food chain with suitable example? ✓	[3] 1	2
Q.2(a)	Explain the significance of ecological pyramids? ✓	[2] 1	1
Q.2(b)	With the help of a neat diagram discuss the biogeochemical cycling of nitrogen. ✓	[3] 1	2
Q.3(a)	Discuss the structure and composition of an unpolluted atmosphere? ✓	[2] 2	1
Q.3(b)	Discuss the chemistry of photochemical smog? ✓	[3] 2	2
Q.4(a)	What are the various approaches to minimize vehicular emissions? ✓	[2] 2	1
Q.4(b)	With a neat sketch describe the working principle of Electrostatic precipitator? ✓	[3] 2	2
Q.5(a)	Discuss various sources of water pollution. ✓	[2] 3	1
Q.5(b)	Explain different types of water pollution. ✓	[3] 3	2

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