

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(END SEMESTER EXAMINATION)**

**CLASS: BTECH  
BRANCH: MECH**

**SEMESTER :II<sup>nd</sup>  
SESSION : SP/2025**

**SUBJECT: CE101 ENVIRONMENTAL SCIENCE**

**TIME: 3 Hours**

**FULL MARKS: 50**

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q.1(a)	What are ecological pyramids? Explain the types of pyramids	[5] 1	1
Q.1(b)	What are biogeochemical cycles? How nitrogen circulation does occurs in nature.	[5] 1	1
Q.2(a)	What are wet scrubbers? Explain Cyclone separator.	[5] 2	1
Q.2(b)	What is photochemical smog? Describe the formation of PAN.	[5] 2	2
Q.3(a)	Enlist different types of water pollutants. Explain Nutrients.	[5] 3	2
Q.3(b)	What are the different processes involved in the waste water treatment? What is the role of Rotating biological contactor?	[5] 3	2
Q.4(a)	What is solid waste? Discuss the disposal method of solid waste management?	[5] 4	1
Q.4(b)	Discuss the major sources of soil pollution.	[5] 4	2
Q.5(a)	Mention the sources & effects of Noise.	[5] 5	2
Q.5(b)	Discuss the different prevention and control methods of noise pollution.	[5] 5	2

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