

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

**CLASS: B.Arch
BRANCH: Architecture**

**SEMESTER : 3rd
SESSION : MO/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)	Classify and explain different types of ecological pyramids.	[5] 1	2
Q.1(b)	Define biogeochemical cycles and explain carbon cycle.	[5] 1	2
Q.2(a)	Explain the monitoring techniques of air pollution.	[5] 2	2
Q.2(b)	Discuss the working principles of electrostatic precipitator with diagram.	[5] 2	3
Q.3(a)	Elucidate the different types of water pollutants.	[5] 3	2
Q.3(b)	Differentiate between attached and suspended growth processes for biological wastewater treatment.	[5] 3	3
Q.4(a)	Illustrate the role of organic matter for soil health and discuss the composition of soil.	[5] 4	3
Q.4(b)	Briefly describe the functional components of municipal solid waste management.	[5] 4	2
Q.5(a)	Discuss the effects of noise pollution.	[5] 5	2
Q.5(b)	Enlist and explain the control methods of noise pollution.	[5] 5	2

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