

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

**CLASS: BCA/BSC
BRANCH: BCA/AIDS/CSE**

**SEMESTER : I
SESSION : MO/2025**

SUBJECT: CA25109 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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Q.1(a)	Explain the food chain and its significance. What is 10% law of energy.	[5] 1	1
Q.1(b)	Explain Nitrogen cycle and its significance. what is the role of carbon cycle.	[5] 1	1
Q.2(a)	Justify how photochemical reactions can lead to smog formation	[5] 2	1
Q.2(b)	Discuss the causes and effects of air pollution on flora and fauna. Describe green house effect in brief.	[5] 2	1
Q.3(a)	Discuss the role of water quality parameters in deciding the quality of drinking water.Explain the process of eutrofication.	[5] 3	1
Q.3(b)	Draw a flow diagram of sewage treatment plant stating the functions of different units?	[5] 3	1
Q.4(a)	Elaborate upon soil and its formation. State the common impurities effecting it.	[5] 4	2
Q.4(b)	Explain the collection, storage and disposal methods of municipal solid waste.	[5] 4	2
Q.5(a)	Discuss the causes and effects of radioactive pollution . What are the steps taken to mitigate it.	[5] 4	2
Q.5(b)	Explain noise pollution and its health effects. How is noise measured.	[5] 4	2

::::::28/11/2025::::::E