

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

**CLASS: MTECH/MSC.
BRANCH: ALL**

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

SUBJECT: CE576 ENVIRONMENTAL SCIENCE & MANAGEMENT

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) Describe the structure of any Ecosystem.	[5]	1	3
Q.1(b) Describe the functional attributes of an ecosystem.	[5]	1	3
Q.2(a) Discuss the Drivers of climate change.	[5]	2	2
Q.2(b) Explore the impacts of climate change on agriculture and oceans.	[5]	2	3
Q.3(a) Categorise water pollutants and discuss each category.	[5]	3	3
Q.3(b) Define hazardous wastes. Differentiate between Toxic and hazardous wastes. Discuss the Characteristics of Hazardous Wastes with examples.	[5]	3	3
Q.4(a) Discuss the functional elements of solid waste management using a diagram that illustrates the interconnection of these elements.	[5]	4	3
Q.4(b) Illustrates the methods that can be used for the treatment and disposal of biodegradable waste.	[5]	4	3
Q.5(a) Discuss the importance of "Biomedical waste management".	[5]	5	2
Q.5(b) Discuss the importance of 17 Sustainable Development Goals.	[5]	5	2

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