

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

**CLASS: BTECH**  
**BRANCH: CSE/AI ML/ECE/EEE**

**SEMESTER : I/ADD**  
**SESSION : MO/2024**

**SUBJECT: CE24101 ENVIRONMENTAL SCIENCE**

**TIME: 02 Hours**

**FULL MARKS: 25**

**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
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|        |   | CO  | BL  |
|--------|---|-----|-----|
| Q.1(a) | Classify the types of ecosystems.   | [2] | 1 1 |
| Q.1(b) | Discuss the structure of ecosystem in brief.                                    | [3] | 1 2 |
| Q.2(a) | Enlist the different types of food chains.                                      | [2] | 1 1 |
| Q.2(b) | Differentiate between bio-accumulation and bio-magnification.                   | [3] | 1 2 |
| Q.3(a) | Discuss the sources and effects of respirable particulate matter pollution.     | [2] | 2 2 |
| Q.3(b) | Explain the formation of photochemical smog.                                    | [3] | 2 2 |
| Q.4(a) | Explain the principle of scrubbers.   | [2] | 2 2 |
| Q.4(b) | Discuss the ways of controlling gaseous air pollutants from stationary sources. | [3] | 2 2 |
| Q.5(a) | Describe the different sources of water.  | [2] | 3 2 |
| Q.5(b) | Discuss the causes of water pollution.  | [3] | 3 2 |

:25/10/2024:E