## BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION SP2023)

CLASS: B.TECH / BHMCT/IMSC SEMESTER : II<sup>nd</sup>
BRANCH: BT/CHEMICAL/CIVIL/MECH/PIE/HMCT/IMSC\_ALL SESSION : SP/2023

SUBJECT: CE101 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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Q.1(a) Q.1(b)	Explain the concept of Ecosystem services using suitable examples for each service. Correlate the relationship between Biotic and Abiotic factors in a holistic manner	[2] [3]	CO 1 1	BL 2 3
Q.2(a) Q.2(b)	Differentiate between the primary and secondary pollutants released due to the burning of fossil fuel and the reactions for the secondary pollutant formations. With the help of a suitable diagram, discuss a biogeochemical cycle, which does not enter the atmosphere.	[2] [3]	2	3
Q.3(a) Q.3(b)	Discuss sick building syndrome. Explain any two methods for gaseous air pollutants emission control.	[2] [3]	2 2	2
Q.4(a) Q.4(b)	Explain the principle of electrostatic precipitator.  Discuss the concept of bioaccumulation and biomagnification.	[2] [3]	2	3
Q.5(a) Q.5(b)	Classify water resources. What are the various requirements and uses of water? Define water pollution. Discuss four different sources of water pollution?	[2] [3]	3	3 2

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