

CBCS SCHEME

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18BT751

Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024 BT for Sustainable Environment

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Discuss Chemical and Physical characteristics of waste water. (10 Marks)
b. Describe Central and State waste water quality and its various discharge standards. (10 Marks)

OR

- 2 a. Discuss in detail Biotechnological Approach for water purification. (10 Marks)
b. Explain various types of water pollutants and its sources. (10 Marks)

Module-2

- 3 a. Write a note on Ion – Exchange and Reverse Osmosis process in waste water treatment. (10 Marks)
b. Discuss the steps involved in Secondary water treatment. (10 Marks)

OR

- 4 a. Explain steps involved in wastewater treatment of Distillery and Leather Industries. (10 Marks)
b. Describe various methods involved in sludge treatment and disposal process. (10 Marks)

Module-3

- 5 a. Write a note on Sources, Classification and properties of Air pollutants. (10 Marks)
b. Explain Control method and equipments for treating particulate and gaseous pollutants. (10 Marks)

OR

- 6 a. Write a note on :
i) Equipment for Noise measurement ii) Approaches for Noise control. (10 Marks)
b. Discuss Ambient sampling and Stack sampling methods. (10 Marks)

Module-4

- 7 a. Explain Biotechnological inputs in producing good quality natural fibers. (10 Marks)
b. Give an account on process involved in recovery of energy from Urban waste. (10 Marks)

OR

- 8 a. Write a note on Conventional fuels and their impact on Environment. (10 Marks)
b. Explain the process of oil production from wood waste and fuels from wood waste. (10 Marks)

Module-5

- 9 a. Describe the characteristics and types of Solid waste. (10 Marks)
b. Discuss Biotechnological process involved in treatment of Textile Industry waste and Pulp Industry wastes. (10 Marks)

OR

- 10 a. Give an account on Biotechnological process involved in Solid Waste Management. (10 Marks)
b. Describe the process involved in Petroleum Waste Treatment. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. $42+8=50$, will be treated as malpractice.