



CBCS SCHEME

18BT751

Seventh Semester B.E. Degree Examination, June/July 2023 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. Explain the different indicators required for measuring water quality. (10 Marks)
b. Discuss physical and chemical characteristics of waste water. (10 Marks)

OR

- 2 a. Discuss in detail the Biotechnological approach for water purification. (10 Marks)
b. Give a detailed note on waste water flow rates and its calculation (10 Marks)

Module-2

- 3 a. Discuss in detail the process involved in biological waste water treatment. (10 Marks)
b. Explain the process involved in sludge treatment and its disposal. (10 Marks)

OR

- 4 a. Write the characteristics of Industrial waste water. (10 Marks)
b. Explain treatment methods involved in treating the waste water released by paper and pulp industries. (10 Marks)

Module-3

- 5 a. Explain the general properties classification of Air Pollutants. (10 Marks)
b. Discuss the Air Sampling based on Particulate and Gaseous pollutants. (10 Marks)

OR

- 6 a. Give a detailed note on Noise pollution, Sources and its causes. (10 Marks)
b. Discuss the different methods involved in Control of Noise Pollution. (10 Marks)

Module-4

- 7 a. Discuss in detail the conventional fuels and their environmental impacts. (10 Marks)
b. Explain Biotechnological approach for producing good quality natural fibres. (10 Marks)

OR

- 8 a. Explain the methodology to convert urban waste into energy. (10 Marks)
b. Discuss the process involved in production of fuels and chemicals from crops. (10 Marks)

Module-5

- 9 a. Discuss the technological advancement in reduction of raw material usage and their reuse. (10 Marks)
b. Explain solid waste management through Biotechnological processes. (10 Marks)

OR

- 10 a. Describe the process involved in treatment of Biomedical waste. (10 Marks)
b. Discuss how pharmaceutical industrial wastes are treated. (10 Marks)

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.