



CBCS SCHEME

18BT751

Seventh Semester B.E. Degree Examination, June/July 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 the various uses of water. (10 Marks)
b. Explain the methods of wastewater sampling. (10 Marks)

OR

- 2 a. Discuss the characteristics of water pollutants. (10 Marks)
b. Elaborate the concept of BOD. (10 Marks)

Module-2

- 3 a. Describe the aerobic attached growth processes in detail. (10 Marks)
b. Explain the methods of sludge disposal on land. (10 Marks)

OR

- 4 a. Discuss the various sludge thickening processes. (10 Marks)
b. List the processes generating wastewater in dairy industry and outline the wastewater treatment methods. (10 Marks)

Module-3

- 5 a. Discuss the effects of air pollution on living and non-living substances. (10 Marks)
b. Describe the various equipment used for noise measurement. (10 Marks)

OR

- 6 a. Discuss the effects of noise pollution. (10 Marks)
b. Elaborate the principles of settling chambers and cyclones for collecting particulates. (10 Marks)

Module-4

- 7 a. Describe the Biotechnological inputs in producing good quality natural fibres. (10 Marks)
b. Elaborate the uses of energy crops for generation of fuels and chemicals. (10 Marks)

OR

- 8 a. Explain the process of biodiesel production from Jatropha and Pongamia. (10 Marks)
b. Discuss the production of fuel and oil from wood waste. (10 Marks)

Module-5

- 9 a. Discuss the physical properties of solid waste. (10 Marks)
b. Elaborate the process of material flow in society. (10 Marks)

OR

- 10 a. Explain the processes for handling and safe disposal of hazardous wastes from bioprocess industries. (10 Marks)
b. Discuss the processes generating waste in leather tanning industry and highlight the various treatment methods. (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.