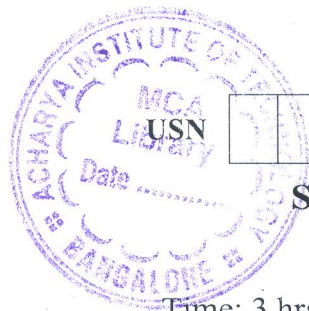


# CBCS SCHEME

18BT751



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Seventh Semester B.E. Degree Examination, Jan./Feb. 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. Define Portable Water. State the standards that calls for drinking water Quality. (10 Marks)  
b. Biotechnological approaches are required for water purification. Justify. (10 Marks)

OR

- 2 a. Give an account of Physical, Chemical and Biological characteristics of water along with its desirable and permissible limits. (10 Marks)  
b. Describe the types of water pollutants and the sources of their contamination. (10 Marks)

### Module-2

- 3 a. Adsorption and Activated carbon are essential in water purification. Uphold the statement. (10 Marks)  
b. Describe the process of wastewater treatment in dairy industry. (10 Marks)

OR

- 4 a. Describe the sludge treatment and disposal process with a neat labeled diagram. (10 Marks)  
b. Enumerate the process of wastewater treatment with a neat flowchart. (10 Marks)

### Module-3

- 5 a. Classify the Air pollutants based on their size and discuss the ill effects of these pollutants. (10 Marks)  
b. Noise measurement is essential in Industrial and Urban areas. Detail the measurement devices used in noise measurement. (10 Marks)

OR

- 6 a. Describe the effects of air pollution on health, vegetation and materials. (10 Marks)  
b. How are the Air pollutants from thermal power plants and cement industries controlled? (10 Marks)

### Module-4

- 7 a. Differentiate between Renewable and Non-renewable Resources of Energy. (10 Marks)  
b. Detail the production of oil from wood waste. (10 Marks)

OR

- 8 a. Discuss the impacts of modern and conventional fuels on Environment. (10 Marks)  
b. Energy can be produced from waste. Justify. (10 Marks)

### Module-5

- 9 a. Detail the properties of Solid waste. (10 Marks)  
b. Describe the Solid Waste Management process in Biomedical Industry. (10 Marks)

OR

- 10 a. What are the ways to reduce Solid Waste Production? (10 Marks)  
b. Discuss the Solid Waste Management process in Leather and Textile Industry. (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.