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Total No. of Questions: 08

M.Tech.(Bio Tech.) (Sem.-1)

## **ENVIRONMENTAL ENGINEERING AND WASTE MANAGEMENT**

Subject Code: MTBT-111 M.Code: 23022

Time: 3 Hrs. Max. Marks: 100

## **INSTRUCTION TO CANDIDATES:**

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 1. a) Elaborate types and sources of air pollution.
  - b) Discuss sources of solid waste.
- 2. Discuss different methods of Air pollution Control techniques.
- 3. a) Discuss methods of water quality modelling for streams.
  - b) How are effluents characterized and what standards are followed?
- 4. Elaborate on the various biological treatment strategies for wastewater.
- 5. Write about Micrometeorology, Dispersion and fate of Air pollutants.
- 6. Elaborate on techniques for Solid waste treatment and disposal.
- 7. What are Biofuels? Write about role of microbes as energy source.
- 8. a) What are Biofilters? Discuss the technology in detail,
  - b) Write a note on Bioremediation.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

1 M-23022 (S9)-2166