

[illegible]

Total No. of Questions : 08

ENVIRONMENTAL ENGINEERING AND WASTE MANAGEMENT

Subject Code : MTBT-109-18

Paper ID : [75769]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWELVE marks.

1. Describe the role of biotechnology in sustainable environmental management. (12)
2. What are the different types of solid waste? How is the non-hazardous solid waste treated and disposed? (12)
3. Write a note on fate and transport of pollutants in the environment. (12)
4. What are the primary methods for treatment of industrial effluents? What is advanced water treatment? (12)
5. Write a note on water quality modeling for rivers and streams. (12)
6. Describe the sources of air, water and soil pollution. (12)
7.
 - a) Write a note on biodiesel. (6)
 - b) What is bioaccumulation and bioaugmentation? (2)
 - c) What are bioscrubbers and biofilters? (4)
8.
 - a) Describe the remediation process for heavy metal contaminants. (5)
 - b) Briefly describe the principle of environmental modeling. (7)