

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII EXAMINATION – SUMMER 2016

Subject Code:181301

Date:10/05/2016

Subject Name:Municipal and Hazardous Solid Waste Management

Time:10:30 AM to 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q-1 (a) What is the Status of Solid Waste management in India. 07

(b) Explain the Factors affecting the generation of Solid Waste. 07

Q-2 (a) What is the most important Functional Element of Solid Waste Management System? 07

(b) Describe the methods for Waste Quantification. 07

OR

(b) Explain the Characteristics of Hazardous Waste. 07

Q-3 (a) Write a Short note on Incineration of Hazardous Waste. 07

(b) Write a short note on Leachate & its Management. 07

OR

Q-3 (a) Explain in brief Pyrolysis System. 07

(b) What is Composting? Explain any two principle methods of Composting. 07

Q-4 (a) Write a short note on Transfer & Transport of Solid Waste. 07

(b) Write a short note on energy from MHSW. 07

OR

Q-4 (a) Enlist & Explain the Collection System of Solid Waste. 07

(b) Write down the hierarchy of integrated Solid Waste Management. 07

Q-5 (a) Explain the Categories of Bio-medical Waste. 07

(b) Explain the Single & Double Liner Composite System with Schematic Diagram. 07

OR

Q-5 (a) Enlist Different methods used for the treatment of Bio-medical Waste. 07

(b) Explain (Locational) knock down Criteria for Selection of Landfill. 07