

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – I • EXAMINATION – SUMMER • 2014

Subject code: 711803N**Date: 19-06-2014****Subject Name: Municipal and Hazardous Solid Waste Management****Time: 02:30 pm - 05:00 pm****Total Marks: 70****Instructions:**

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

- Q.1** (a) Enlist properties of Hazardous Solid Waste and explain any one in detail. **07**
(b) Write a short note on Sources of hazardous solid waste. **07**
- Q.2** (a) Explain the Categories of Biomedical Waste. **07**
(b) Explain Double Liner System for secured Landfill site. **07**
- OR**
- (b) What is importance of processing of solid waste? **07**
- Q.3** (a) Write the sources of municipal solid waste with its location of generation and types of solid waste. **14**
- OR**
- Q.3** (a) Explain following processes for recovery of biological conversion **14**
(i) Composting (ii) Anaerobic Digestion
- Q.4** (a) Write the affect on selection of site for disposal of municipal solid waste. **07**
(b) Why collection of solid waste in urban area is difficult and complex? **07**
- OR**
- Q.4** (a) Give the classification of transfer station based on direct discharge and storage discharge. **14**
- Q.5** (a) Explain Following rear-end System for chemical and biological conversion **14**
processing
(i) Incineration (ii) Pyrolysis (iii) Hydrolysis (iv) chemical conversion
- OR**
- Q.5** (a) Enlist methods used to determine the generation of municipal solid waste. Explain any two in detail. **14**
