

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

Subject code: 2711803**Date: 07-01-2015****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 marks.

Q.1 (a) Write down the main elements of municipal solid waste management and explain it. **07**

(b) Give the classification of solid wastes and state its characteristics **07**

Q.2 (a) Why composition of solid waste is an important for management? Enlist physical properties & explain any one in detail **07**

(b) Enlist chemical properties of solid waste and explain any one in detail. **07**

OR

(b) Explain "Material Mass Balance Analysis" method to determine generation rate of solid waste. **07**

Q.3 (a) Enlist and explain factors that affect generation rates of municipal solid waste. **07**

(b) Explain "Weight-Volume Analysis" method to determine generation rates of municipal solid waste. **07**

OR

Q.3 (a) Explain the factors affect the onsite storage of solid wastes. **07**

(b) Write a short note on "On-site handling method" for solid waste management of commercial activities. **07**

Q.4 (a) Explain hauled container system for collection of municipal solid waste using neat sketch **07**

(b) Explain stationary container system for collection of municipal solid waste using neat sketch **07**

OR

Q.4 (a) Enlist the location criteria for transport station of solid waste. **07**

(b) Write the equipment & accessories requirement at transport station. **07**

Q.5 (a) Write the factors affect on selection of site for disposal of municipal solid waste. **07**

(b) Explain "Area method for dry areas" for sanitary landfill. **07**

OR

Q.5 (a) Define Hazardous waste. Give the classification of hazardous solid waste with its characteristics **07**

(b) Write a short note on "Sources of hazardous solid waste". **07**
