

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**
