

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE- VIII<sup>th</sup> SEMESTER-EXAMINATION – MAY- 2012**

**Subject code: 181301**

**Date: 10/05/2012**

**Subject Name: Municipal and Hazardous Solid Waste Management**

**Time: 10:30 am – 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)** Write down the Hierarchy of Solid Waste Management. **07**  
**(b)** Explain characteristics of Municipal Solid Waste. **07**

**Q.2 (a)** What is Transformation? Write down importance of Waste Transformation. **07**  
**(b)** Write short note on Leachate. **07**

**OR**

**(b)** Describe methods for Waste Quantification. **07**

**Q.3 (a)** Define Hazardous Waste and explain sources of Hazardous Waste. **07**  
**(b)** Describe the types of Waste Collection System. **07**

**OR**

**Q.3 (a)** Explain categories of Bio Medical Waste. **07**  
**(b)** Enlist various treatments of Bio Medical Waste and explain any one. **07**

**Q.4 (a)** Write short note on Transportation of Hazardous Waste **07**  
**(b)** Explain characteristics of Hazardous Waste. **07**

**OR**

**Q.4 (a)** Which are the sources of Municipal Solid Waste? **07**  
**(b)** Enlist Knock Down criteria for selection of Landfill site. **07**

**Q.5 (a)** Draw Single and Double Liner Composite system. **07**  
**(b)** Explain factors affecting Generation of Solid Waste. **07**

**OR**

**Q.5 (a)** Write note on Incineration of Hazardous Waste. **07**  
**(b)** Explain in brief Pyrolysis. **07**

\*\*\*\*\*