

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER VIII((OLD) – • EXAMINATION – WINTER 2017

Subject Code:181301**Date: 10-11-2017****Subject Name: Municipal and Hazardous Solid Waste Management****Time: 02:30 pm to 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) Explain characteristics of Municipal Solid Waste. **07**
 (b) Write a short note on ‘Landfill Gas Management’. **07**
- Q.2** (a) What is Transformation? Write down the importance of Waste Transformation. **07**
 (b) Write a short note on “Application of GIS in locating a landfill”. **07**
- OR**
- (b) Write short note on on-site handling and on-site processing of solid waste. **07**
- Q.3** (a) Explain the following terms with reference to processing of municipal solid waste: **07**
 (i) Shredding
 (ii) Sorting
 (iii) Solidification
 (b) Write down the hierarchy of integrated solid waste management? **07**
- OR**
- Q.3** (a) Enlist the factors which should be considered for selection of site for disposal of solid waste and explain any two in detail. **07**
 (b) What is Composting? Explain any two principle methods of Composting. **07**
- Q.4** (a) Explain knock off criteria for site selection of landfills. **07**
 (b) Write a Short note on treatment of Bio-Medical Waste. **07**
- OR**
- Q.4** (a) Explain categories of Biomedical Waste **07**
 (b) Write a short note on Leachate & its Management. **07**
- Q.5** (a) Write a short note on energy from MHSW **07**
 (b) What is biomedical waste ?Explain storage of biomedical waste in detail **07**
- OR**
- Q.5** (a) Define hazardous waste. List various categories of hazardous waste and explain any two in detail. **07**
 (b) Write a Short note on Incineration of Hazardous Waste **07**
