

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-V • EXAMINATION – SUMMER • 2015**

**Subject Code: 153703****Date: 07/05/2015****Subject Name: Solid Waste Management****Time: 02.30pm-05.00pm****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) Define: (a) Corrosive (b) Composting (c) Ignitability **07**  
 (b) What are the main problems of sorting of waste **07**
- Q.2** (a) What are the key characteristics of a Sanitary landfill? **07**  
 (b) Define Hazardous waste? What are its characteristics? **07**
- OR**
- (b) Write a note on Agriculture waste and its management **07**
- Q.3** (a) What are the various treatment and disposal methods of Biomedical waste? **07**  
 (b) Give a short description various waste incineration devices? **07**
- OR**
- Q.3** (a) Describe leachate quality and its management. **07**  
 (b) Explain the planning process of solid waste management **07**
- Q.4** (a) Explain Effect of Solid Waste on Environment. **07**  
 (b) What are the guidelines for sorting of waste in India **07**
- OR**
- Q.4** (a) What are the objectives and functional elements of waste management system **07**  
 (b) Explain the sequential and distinct phases for stabilization of landfill. **07**
- Q.5** (a) Give the classification of waste according to their origin and type. **07**  
 (b) Define e-waste and explain health hazard due to e-waste. **07**
- OR**
- Q.5** (a) Explain the importance of MSW Rules in Solid waste management **07**  
 (b) Explain the physical, chemical and biological properties of MSW **07**

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