

GUJARAT TECHNOLOGICAL UNIVERSITY
ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016

Subject Code: 2721713**Date: 31/05/2016****Subject Name: Solid & Hazardous Waste Management****Time: 10:30 am to 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) Briefly, enlist sources and types of solid wastes. **07**
(b) What is hazardous waste? What are its sources? Why it is vital to handle such waste with extreme care? **07**
- Q.2** (a) Discuss the solid waste generation scenario of country, and the challenges to manage the same thereafter. **07**
(b) Discuss Prohibitions and restrictions on the location of industries as per The Environment (Protection) Rules, 1986. **07**
- OR**
- (b) What is the importance of segregation in solid waste management? Explain in details with examples. **07**
- Q.3** (a) What are the types of properties of solid waste? Discuss any three from any one type of properties. **07**
(b) Discuss landfill method as a tool for effective solid waste management. **07**
- OR**
- Q.3** (a) With reference to The Batteries (Management and Handling) Rules, 2001, define these terms in one sentence each – assembler, battery, designated collection center, recycler, used batteries. **07**
(b) Short note – NHWIS, India. **07**
- Q.4** (a) Discuss nuclear waste management fundamentals. **07**
(b) What is a transfer station? What is the importance of route optimization in effective solid waste management? **07**
- OR**
- Q.4** (a) Discuss the composition and generation scenario of e waste in India. Use official data. **07**
(b) Discuss HSMD in Indian legal framework, in context of waste management. **07**
- Q.5** (a) Short note – Financing Waste Management. **07**
(b) What is CPHEEO ? What are its roles and duties? Discuss. **07**
- OR**
- Q.5** (a) Discuss TCLP test in detail. **07**
(b) Short note – Importance of Environmental Protection Act, 1986. **07**
