	Seat	t No.: Enrolment No	_
		GUJARAT TECHNOLOGICAL UNIVERSITY	
	a 1	BE - SEMESTER-V • EXAMINATION – WINTER • 2014	
		oject Code: 153703 Date: 01-12-2014	
	Tin	oject Name: Solid Waste Management ne: 10:30 am to 01:00 pm Total Marks: 70 ructions:	
		 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	What is waste minimisation? Give the classification of Waste Minimisation (WM) Techniques and discuss them briefly.	07
	(b)	Write a short note on Biomedical waste and its management.	07
Q.2	(a)	Define: (a) Landfill (b) Garbage (c) Incineration	07
	(b)	Explain Impact of Solid Waste on Environment. OR	07
	(b)	Define e-waste and explain health hazard due to e-waste	07
Q.3	(a)	Explain the planning process of solid waste management. Give the various steps of basic planning model for solid waste management.	07
	(b)	Explain the importance of MSW Rules in Solid waste management OR	07
Q.3	(a)	Explain Hazardous waste incineration. What are the various waste incineration devices? Explain one in detail.	07
	(b)	Describe waste management hierarchy.	07
Q.4	(a)	What are the benefits of recovery of energy from wastes? Explain the basic	07
	(b)	techniques of energy recovery. Explain the physical characteristics of solid wastes. OR	07
Q.4	(a) (b)	Define Incineration and Explain the basic types of Incineration plants. Give the classification of wastes and explain them with examples.	07 07
Q.5	(a) (b)	What are the key characteristics of a Sanitary landfill? Explain landfill monitoring and control of leachate.	07 07
Q.5	(a) (b)	OR Write a short note on vermicomposting. Explain the characteristics of Hazardous solid wastes.	07 07
