Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER - I • EXAMINATION - WINTER 2012

•		code: 711803N Date: 12-01-2013 Name: Municipal and Hazardous Solid Waste Management	,
		3.30 pm – 05.00 pm Total Marks: 70)
		ions:	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Explain need of integrated Municipal solid waste.	07
	(b)	Explain the four R in solid waste.	07
Q.2	(a)	Describe the action plan for effective disposal of MSW for Residential Area and Vegetable & Fruit Market	07
	(b)	What are the functional elements of MSW & give key point of each element?	07
		OR	
	(b)		07
Q.3	(a)	Enlist various reagents and chemicals used for stabilization of hazardous waste and explain its working mechanisms with sketch.	07
	(b)	waste and explain its working mechanisms with sketch.	07
0.3	()	OR	0.5
Q.3	(a)	Draw the flow diagram for any one system for processing and recovery of solid waste and explain it in detail.	07
	(b)	•	07
Q.4	(a)	Write a short note on any one method for solid waste estimation.	07
		Explain the components of municipal solid waste OR	07
Q.4	(a)	Write a short note on need of transfer and transport in the management of municipal solid waste.	07
Q.4	(b)	Write a note on phased operation of secured landfill	07
Q.5	(a)		07
	(b)	Write a note on knock down criteria for selection of hazardous landfill site. OR	07
Q.5	(a)	What is biomedical waste ?Explain transportation of biomedical waste in detail.	07
	(b)	Write a short note on "Application of GIS in Solid Waste Management".	07
