GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015

Subject Name: Municipal and Industrial Solid Waste Management		ate:10/12/2015		
		otal Marks: 70		
	 Attempt an questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 			
Q-1	(a) Write down the hierarchy of integrated Solid Waste Management.	07		
	(b) Write down the most important Functional Element of Solid Waste	07		
	Management System.			
Q-2	(a) Which are the Factors that affecting the Waste generation Rate?	07		
	(b) Describe the Physical Properties of Municipal Solid Waste.	07		
OR				
	(b) Which Process is used for Biological Transformation?	07		
Q-3	(a) Write a short note on On-site Processing of Solid Waste.	07		
	(b) Give the Analysis of Haul & Stationary Container System.	07		
	OR			
Q-3	 (a) Write a Short note on: Need of Transfer & Transport in the management MSW. 	of 07		
	(b) Define Pick up Haul, at site & Off-route with reference to the hauled Cor	tainer 07		
	system & stationary Container System. Draw a net diagram of operationa	1		
	sequences of both the system.			
Q-4	(a) Explain in detail all the three methods used for land filling along with near	ut 07		
	sketches.			
	(b) Write a short note on energy from MSW.	07		
OR				
Q-4	(a) Draw Schematic diagram of land fill? Explain each essential Component	of that. 07		

	(b) Write a short note on Leachate & its Management.	07	
Q-5	(a) Enlist & Explain the treatment Technologies of Hazardous Waste.	07	
	(b) Explain categories of Bio-medical Waste.	07	
OR			
Q-5	(a) Enlist the Different methods used for the treatment of Bio-Medical Waste.	07	
	Explain in detail.		
	(b) Write a short note on Manifest.	07	