Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER-1 (NEW) EXAMINATION – WINTER 2016

U			04/01/2017	
Tim	-	Name: Municipal and Hazardous Solid Waste Management :30 pm to 5:00 pm Total Man	rks: 70	
IIISU	1. 2. 3.			
Q.1	(a) (b)	Explain double liner system for secured landfill with sketches. Explain the four R in solid waste Management.	07 07	
Q.2	(a) (b)	Write a short note on material recovery from municipal solid waste. Write a short note on any one method for waste estimation. OR	07 07	
	(b)	Write a short note on "Application of GIS in Solid Waste Management".	07	
Q.3	(a) (b)	Explain phased operation of secured landfill with sketch. Enlist the responsibilities & duties of hazardous waste generator and operator of facility as given in hazardous waste rules.	07 07	
Q.3	(a) (b)	OR What are the major recoverable materials present in the Municipal Solid Waste? Explain any one recovery point of view. Explain Hauled container system with neat sketch.	07 07	
Q.4	(a)	Explain the following with reference to processing of municipal solid waste: (i) Crushing (ii) Sorting (iii) Incineration	14	
Q.4	(a)	OR Enlist the factors which should be considered for selection of site for disposal of solid waste and explain any two in detail.	14	
Q.5	(a)	Give differentiate between Microencapsulation and Macro encapsulation	07	
	(b)	What is use of Magnetic Separation in solid waste processing? Explain any one equipment for it.	07	
Q.5	(a) (b)	What is Syngas?. Explain main reactions taking place during gasification. What is biomedical waste ?Explain transportation of biomedical waste in detail. ***********************************	07 07	