Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Sı Ti	abject ime:02 structio 1.	BE - SEMESTER-V (NEW) - EXAMINATION – SUMMER 2016 Code:2151307 Date:11/05/201 Name:Municipal and industial solid waste management 2:30 PM to 05:00 PM Total Marks: Ons: Attempt all questions. Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Define the following terms: collection, compost, disposal, Incineration, Municipal waste, Leachate, sanitary landfill	07
	(b)	Explain in detail types of solid wastes	07
Q.2	(a)	Explain, in brief, factors that should be considered in evaluating onsite processing equipment	07
	(b)	Explain in brief factors affecting generation rates	07
	(b)	OR Enlist the methods used to determine generation of solid waste. Explain any one in detail.	07
Q.3	(a) (b)	Write a short note: Solid waste collection systems Draw a neat sketch of countercurrent direct-heat rotary drum dryer OR	07 07
Q.3	(a) (b)	Explain biological processes used for the conversion of solid wastes Write a short note: Landfill mining	07 07
Q.4	(a) (b)	Write down the advantages and disadvantages of sanitary landfill Give classification of hazardous solid waste OR	07 07
Q.4	(a)	With reference to hazardous waste management explain the term Waste minimization	07
	(b)	Explain the important characteristics of hazardous waste	07
Q.5	(a) (b)	Define Biomedical waste. Explain color coding of biomedical waste Explain disposal of hazardous solid waste in detail OR	07 07
Q.5	(a)	Mention the treatment alternatives for biomedical waste. Explain any one in detail	07
	(b)	Explain physico-chemical treatment of hazardous waste	07
