Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2013

Subject code: 1721704 Date: 03-06-201.			
Sul	bject	Name: Solid Waste Management	
Tir	ne: 1	0.30 am – 01.00 pm Total Marks: 70	
Ins	Instructions:		
		1. Attempt all questions.	
		2. Make suitable assumptions wherever necessary.	
		3. Figures to the right indicate full marks.	
Q.1	(a)	Draw the functional elements of the solid waste management system and explain it in detail.	07
	(b)	Discuss the factors affecting solid waste generation rate.	07
Q.2	(a)	Give the sources of solid waste generation and explain the types of solid waste in brief.	07
	(b)	Discuss the factors affecting on-site storage.	07
		OR	
	(b)	Explain the collection services for solid waste. Write the types of collection system & explain any one in detail.	07
Q.3	(a)	What is the transfer station? Describe the types of transfer stations.	07
	(b)	What is the size reduction? Discuss mechanical size reduction in detail.	07
Q.3	(a)	OR Explain factors affecting on collection routes for solid waste.	07
Ų.S	(a) (b)	Write a short note on Air Separation.	07
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Q.4	(a)	Explain the pyrolysis process in detail.	07
	(b)	Discuss the site selection for solid waste disposal. OR	07
Q.4	(a)	Write a short note: Ocean Dumping.	07
Ţ.Ţ	(b)	Explain in detail the fluidized bed combustion.	07
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Q.5	(a)	Discuss land filling methods. Explain conventional method for dry areas.	07
	(b)	What are the advantages and disadvantages of sanitary land filling? OR	07
Q.5	(a)	What is composting? Write short note on heat recovery.	07
~···	(b)	Explain incineration process for solid waste.	07
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