## GUJARAT TECHNOLOGICAL UNIVERSITY ME- SEMESTER II– EXAMINATION – SUMMER 2015

Subject Code: 2721713Date: 01/06/20Subject Name: Solid & Hazardous Waste ManagementTime: 2:30 PM - 5:00 PMInstructions:Total Marks:			/2015	
			70	
	1. 2.	Attempt all questions.		
Q.1	<b>(a)</b>	Discuss the solid waste generation scenario of country. Discuss why solid waste	07	
	(b)	management is vital. Discriminate physical and chemical properties of solid waste. Discuss Chemical composition of typical MSW in Indian conditions.	07	
Q.2	<b>(a)</b>	With reference to Hazardous Wastes (Management and Handling)Rules, 1989, explain these terms in one sentence each ó hazardous wastes, hazardous waste	07	
	(b)	sites, import, transboundary movement, facility. What is HSMD in legal Indian frame work? Give introduction of The Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989/2000.	07	
		OR		
	<b>(b)</b>	What is TCLP. Discuss in brief.	07	
Q.3	(a) (b)	What is hazardous waste? What are its characteristics? What is segregation? Explain how source segregation of domestic waste would help in effective waste management.	07 07	
		OR		
Q.3	<b>(a)</b>	What is a transfer station? Discuss the role it plays in overall effective waste management.	07	
	(b)	Discuss advantages and disadvantages of incineration method of solid waste disposal.	07	
Q.4	<b>(a)</b>	What is recycling? How source segregation will help in the same? Discuss in detail.	07	
	<b>(b)</b>	What is leachate? Discuss landfill leachate and its management. OR	07	
Q.4	<b>(a)</b>	Discuss why public participation is important for solid waste management in general.	07	
	(b)	What is sustainable development? Discuss the same in context to solid waste management.	07	
Q.5	(a) (b)	Short note ó Moisture content of MSW. Using the official data, discuss the urbanization scenario of country. Discuss the challenges in solid waste management due to the same.	07 07	
Q.5	<b>(a)</b>	OR Short note - Proximate Analysis.	07	
Q.J	(a) (b)	What is nuclear waste? Why it is extremely important to manage the same? What is scenario in India?	07 07	

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