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Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

		M. E SEMESTER – II • EXAMINATION – WINTER 2012	
Subj	ect	code: 1723005 Date: 02-01-2013	
_		Name: Environment and Safety Management	
Time	e: 1(0.30 am – 01.00 pm Total Marks: 70	
Inst	ruct	tions:	
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	What are the ways to treat the hazardous waste? Discuss the construction and	07
	` ,	working of Thermal Incinerator.	
	(b)		07
		determining emissions of Nitrogen oxides from stationary source.	
Q.2	(a)	What are the factors to be considered while collecting the vent stream from	07
٠	(5.)	safety devices? Discuss the construction and working of horizontal blow	•
		down tank.	
	(b)	• • •	07
	<i>(</i> 1.)	its advantages. OR	
	(b)		04
		collection and explain with the help of a neat figure.	
Q.3	(a)	With the help of diagram explain working of rupture disc.	07
	(b)		07
		during runaway reaction.	
•	(-)	OR	
Q.3	(a)	What is e-waste? Give types of e-Waste.List various sources of e-Waste and discuss damage caused by e-waste.	07
	(b)	•	07
	(0)	PCB's using green leachants.	٠.
Q.4	(a)	What are preconditions for repair of Pressure Vessel and how it is done in	07
		SMPV rules? What are special precautions to be taken against accidents	
	(b)	during repair in SMPV rules? What are Filling, Manufacture, import, delivery and dispatch (unloading) in	07
	(0)	SMPV rules?	٠.
		OR	
Q. 4	(a)		07
	/L-\	Environment Audit of a Chemical manufacturing unit.	
	(b)	Give an overview of six basic tank designs for storage and handling of organic liquids.	U A
		organe nquius.	
Q.5	(a)	Discuss the selection crieteria for storage and handling of hazardous material	07
	. ,	in underground tanks.	
	(b)	ϵ	07
		waste.	

Q.5 (a) With neat diagram discuss construction and working of landfill site.

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