Seat	No.:	Enrolment No.		
		GUJARAT TECHNOLOGICAL UNIVERSITY		
		BE - SEMESTER-V(New) • EXAMINATION - WINTER 2016		
Sul	oiect	Code:2153508 Date:22/11	/2016	
	•	Name:Environmental Management-I		
Time: 10:30 AM to 01:00 PM Total M				
	ructio		113. 70	
		Attempt all questions.		
		Make suitable assumptions wherever necessary.		
	3.	Figures to the right indicate full marks.		
			MARKS	
Q.1		Short Questions	14	
	1	Abbreviate OHSAS		
	2	Define Manifest.		
	3 4	An Environment Audit is carried out for which purpose? List out the types of Environmental Audit.		
	5	List out any one identification that an Environmental Audit report must		
	3	contain.		
	6	List out the characteristics of Hazardous Waste.		
	7	Define Hazardous Waste.		
	8	Define Trem Card.		
	9	Abbreviate MEE		
	10	Define waste.		
	11	Which are the five P's required in implementing Integrated Waste		
		management.		
	12	List out the categories of client driven type's audit.		
	13	In a falling film evaporator, typically a temperature difference of at least		
		is required at the heating surface.		
	14	Define Osmosis		
Q.2	(a)	Write a Note on Introduction to Environmental Audit	03	
	(b)	What do you mean by Osmosis? Explain the phenomena of Reverse	04	
	(-)	osmosis in brief.	07	
	(c)	Explain the hazardous waste management techniques in detail. OR	07	
	(c)	Explain the characteristics of Integrated waste management system.	07	
Q.3	(a)	Write a Note on Introduction to ISO 14001.	03	
	(b)	List out the types of evaporators. Explain any one in detail.	04	
	(c)	What do you mean by precipitation? List out the types of precipitation and	07	
		explain any one in brief.		
		OR		
Q.3	(a)	Explain the different techniques of Air cleaning mechanism in brief.	03	
	(b)	How water audit is achieved? Explain in brief.	04	
0.4	(c)	Write a Note on Introduction to ISO 18001. What do you mean by Illegal Traffic?	07 03	
Q.4	(a) (b)	What do you mean by Illegal Traffic? Explain at least five difference between ISO 14001 & OHSAH 18001.	03 04	
	(c)	Write a Note on Life Cycle Assessment.	0 4 07	
	(-)	OR	•	
0.4	(-)	Evaloin TDEM Cond in data!!	0.2	
Q.4	(a)	Explain TREM Card in detail	03	

(b) Write a brief note on content of Audit report.
(c) Explain the need and limitations of Zero liquid discharge plant. Explain with a neat flow sheet ZLD for Thermal power station.

Q.5	(a)	What do you mean by bio remediation? Explain any one technique in detail.	03
	(b)	Explain any two P's for successful implementation of Integrated waste management system.	04
	(c)	List out the types of Objectives based Audit and explain in detail. OR	07
Q.5	(a) (b) (c)	List out the treatment of Hazardous waste. Explain any one in detail. Explain the characteristics of hazardous waste in brief. Explain in detail the Objective and Scope of Environmental Audit.	03 04 07
