Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY **BE SEM-VI Examination-Nov/Dec-2011**

Subject code: 160504 Date: 28/11/2 Subject Name: Pollution Control & Safety Management Time: 10.30 am -1.00 pm Total marks			011	
			: 70	
Instru	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Explain Water and Nitrogen cycles in detail Differentiate HAZOP, SAFETY AUDIT and WHAT IF analysis techniques based on Suitability to different phases of projects, Amount of time, money and resources required.	07 07	
Q.2	(a)		07	
	(b)	ecology alteration. Write in detail about different parameters used to develop Environment Impact Assessment (EIA). OR	07	
	(b)		07	
Q.3	(a)	Give analysis techniques used to develop fault tree analysis? Explain fault tree analysis in detail.	07	
	(b)	Explain HAZOP technique with emphasis on guidewords, parameters and possible results.	07	
		OR		
Q.3	(a) (b)	Describe the air pollution control laws. Give a brief account of hazardous waste disposal.	07 07	
Q.4	(a) (b)	Describe the water pollution control laws. Write brief note on effect of pollution. OR	07 07	
Q.4	(a)	Plum' Vs. 'Puff' model of dispersion. Compare their applicability, characteristics and parameters.	07	
	(b)		07	
Q.5	(a)	In the case of a nuclear reactor accident, which dispersion model you recommend? What parameters you will need to calculate radioactive effluent dispersion?	07	
	(b)	Explain various four personal protective equipments with its working principle and application.	07	
0.5	(e)	OR Explain working principle, science and industrial application of	07	
Q.5	(a) (b)	Pressure Safety Valve and Rupture disc.	07	

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