Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - SUMMER • 2014

Ū		Code: 160504 Date: 28-05-2014	
_	e: 10	Name: Pollution Control and Safety Management 0:30 am - 01:00 pm Total Marks: 70	
mstr		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Explain Nitrogen cycle in detail	07
	(b)	Write brief note on effect of pollution.	07
Q.2	(a)	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
	(b)	Give a brief account of hazardous waste disposal.	07
		[OR]	
	(b)	Explain how is fault tree analysis carried out?	07
Q.3	(a)	List the various types of fire and explain the components of fire triangle.	07
	(b)	List the different parameters used to develop Environment Impact Assessment (EIA) and explain any two of them	07
Q.3	(a)	[OR] Explain various four personal protective equipments with its working principle and application.	07
	(b)	**	07
Q.4	(a)	Explain working principle, science and industrial application of Pressure Safety Valve and Rupture disc.	07
	(b)	Show the detail calculation of blast damage due to over pressures.	07
Q.4	(a)	[OR] Explain the role of Government on steps taken for environmental protection in	07
ζ	(4)	brief.	•
	(b)	Explain any one method for solid waste disposal in brief with schematic diagram	07
Q.5	(a)	Write a brief note on Onsite emergency Control and Offsite disaster management?	07
	(b)	Write brief note on wages and payment acts.	07
		[OR]	
Q.5	(a)		07
	(b)	process industries? Mention steps of safety audit. Compare the applicability, characteristics and parameters of 'Plum' v/s. 'Puff' model of dispersion.	07
