Seat No Emploiment No.	Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **ME Semester – III Examination Dec. - 2011**

Subject code: 731804 Date: 08/12 Subject Name: Industrial Hygiene and Safety		2011	
_		0.30 am – 01.00 pm Total Marks:	: 70
Instru	1. 2.	ns: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Define industrial safety. How safety management can help in increasing the productivity?	07
	(b)	How heat stress can be monitored in a hot industry. Give four names of industries where heat stress is prevail.	07
Q.2	(a)	Explain the importance of Industrial ventilation in an industry with few examples.	07
	(b)	How dust and toxic gases can be monitored in an industry?  OR	07
	(b)		07
Q.3	(a)	How vibration can be monitored in an industry? Give the health effects of vibration hazards.	07
	(b)	Give the health hazards in a thermal power station. How it can be controlled?	07
Q.3	(a)		07
	(b)	Give the health hazards in a fertilizer industry. What can be safety measures required to control them?	07
Q.4	(a)	Write short notes on (Any two):  (i) 18002 for Safety & Health  (ii) Isolation  Wetting process	07
	(b)	Describe the health effects of radiations.	07

Q.4	(a)	Write short notes on (Any two):  (i) Byssinosis  (ii) Personal Protective Equipments (PPE)  (iii) Biomedical waste management.	07
	(b)	Give importance of Factories Act in industry with regard to safety and health.	07
Q.5	(a)	Enlist and explain safety aspects to be covered in bulk storage installation for ammonia.	07
	(b)	Write short notes on (Any two):  (i) Statutory inspections on pressure vessels  (ii) Safety in Chemical laboratories.  (iii) MAH categorization for chemical industries	07
		OR	
Q.5	(a)		07
	(b)	Describe the Hazard Identification & Risk Assessment Techniques.	07
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