Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-I(New course) • EXAMINATION - WINTER- 2015

Subject Code: 2711807 Subject Name: Industrial Hygiene & Safety			Date: 04/01/2016	
Tir	Time: 2:30 pm to 5:00 pm Total Marks Instructions:		70	
	1.	Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Enlist the Physical Hazards .How high noise exposure can be controlled? Describe the Significance of Threshold Limit Values (TLV)	07 07	
Q.2	(a)	Why work -environment monitoring is required? Give details of area and personal monitoring .	07	
	(b)	Give application and importance of Biological Monitoring in Occupational Health. OR	07	
	(b)	Write a note on "Role of Safety Officer and Industrial Hygienist in industry."	07	
Q.3	(a) (b)	Describe usefulness and need of Personal Protective Equipments(PPE) in industry Explain the following terms(Any Three): (1) CET (2) Hertz (3) Decibel-A and C frequency (4) Lux OR	07 07	
Q.3	(a)	Describe the Health Hazards in Thermal Power Station. What are preventive	07	
	(b)	steps required to control the hazards Write Short Notes (Any Three): (1) Health Effects of Radiation (2) Administrative Control (3) Byssinosis (4)Describe different parts (with figure)and its application of Local Exhaust Ventilation(LEV)	07	
Q.4	(a)	Enlist and explain the symptoms of Silicosis. How it can be controlled in dusty industry?	07	
	(b)	Short Notes (Any Three) (1) Difference between Occupational Health and Hygiene (2) Heat Stress (3) Ergonomics (4) Wetting Process for control of Dust OR	07	
Q.4	(a)	Explain following terms in brief (any seven) (1) ET (2) BEL(3) OSHA(4) VOC (5) HAZAN(6)HAZOP (7) EHS(8) AAS(9)ILO	07	
	(b)	What is risk assessment? Explain it with Procedure	07	
Q.5	(a) (b)	Explain the importance of Factories' Act with respect to Occupational Health/Hygiene Write Short Notes on (Any three) (1) Dermatitis (2)Total Loss control (3)On site emergency response Plan (4) DOW Index (5) ILO code of practice on Safety	07 07	

OR

Q.5	(a)	Write Short Notes on(Any three):	07
		(1) MAH categorization for Chemical Industry	
		(2) Fault Tree Analysis	
		(3) Toxic Effects Of Heavy Metals	
		(4)Application/use of incineration process in treatment of Bio Medical Wastes	
		(5)Safety Audit	
	(b)	Describe Safety Aspects to be covered in bulk storage installation for Chlorine	07
