Seat No.:	Enrolment No.

Subject Code: X81904

GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER- VIII • EXAMINATION - WINTER - 2016

Date: 22/10/2016

Subject Name: Industrial Safety and Maintenance Engineering Time:02.30 pm - 05.00 PM Instructions: Total Marks: 70			
		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Write a short note on (i) Explosive Act (ii) Boiler Act. Discuss various activities involved during safety analysis of a product.	07 07
Q.2	(a) (b)	Describe roll of management and roll of government in industrial safety. Discuss the cost of accident.	07 07
	(b)	OR What is personal protective equipment? Explain different PPE used for different purpose and an importance of PPE.	07
Q.3	(a) (b)	Discuss various engineering methods of controlling chemical hazards. What are the aims and goals of the maintenance organization? OR	07 07
Q.3	(a) (b)	Explain the importance of Housekeeping and First aid in industry. Discuss various code and regulations for worker's safety and health.	07 07
Q.4	(a)	How equipment life cycle is useful for deciding maintenance activities? Explain in detail.	07
	(b)	Explain methodology and implementation of TPM. OR	07
Q.4	(a)	Discuss in brief condition checking and trend monitoring with respect to condition monitoring.	07
	(b)	Explain MTBS, MTBF, MTTF and MTTR.	07
Q.5	(a) (b)	State various methods of wear debris analysis. Explain any two of them in brief. Discuss Maintenance schedules-Repair cycle. OR	07 07
Q.5	(a) (b)	What is Fault Tree Analysis? Explain briefly. Write a short note on (i) Thermography (ii) Pistol Thermometers.	07 07
