Seat No.: Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC SEMESTER VIII- EXAMINATION - SUMMER 2017

Subject Code: X81904 Date: 03/05/2017 Subject Name: Industrial Safety and Maintenance Engineering Time: 10.30AM to 01.00PM Total Marks: 7 Instructions:			
	2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Draw neat sketches wherever necessary.	
Q.1	(a) (b)	Discuss the role of management and role of Government in industrial safety. Describe the factories act in detail with its importance.	07 07
Q.2	(a) (b)	Explain the following: Explosive Act and Boiler Act. State and explain the benefits of sound maintenance systems. OR	07 07
	(b)	Explain the control of industrial noise and protection. Also explain the code and regulations for worker safety and health.	07
Q.3	(a) (b)	List the instruments used for Condition Monitoring and explain any two of them. Explain the personal protective equipment in detail. OR	07 07
Q.3	(a) (b)	Explain the statement: Condition Monitoring is one of the best techniques used for maintaining the health of plant machineries and equipments in industries. Explain the importance of education and training in safety and accident prevention.	07 07
Q.4	(a) (b)	State and explain the principles and methods of lubrication. Write a note on: Fault Tree Analysis. OR	07 07
Q.4	(a) (b)	State the different strategies/practices followed for maintenance in industries. Differentiate between breakdown maintenance and preventive maintenance. Write a detailed note on: Total Productive Maintenance	07 07
Q.5	(a) (b)	Define and explain the following: Reliability, machine availability, MTBF, MTTF, MTTR and failure rate. State and explain the objectives and principles of planned maintenance activity.	07 07
		OR	

Discuss the basic principles of maintenance planning. Write a note on: Equipment Life cycle.

Q.5

(b)

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