Subj Time:	ject     10.3	GUJARAT TECHNOLOGICAL UNIVERSITY   BE - SEMESTER-VIII • EXAMINATION – SUMMER • 2015   ode: 181905   Date: 05/05/2015   Name: Industrial safety & Maintenance engineering   OAM-01.00PM	
Instructions:			
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is Industrial safety? Explain safety and Productivity.	07
	(b)	What is the roll of management and Government in industrial safety? Discuss Safety organizations.	07
Q.2	(a)	How Industrial Psychology is helpful in preventing accident in Industries? Name the personal protective equipment for preventing accident.	07
	(b)	Write short notes on (i) Workman's compensation Act. (ii) Boiler Act (iii) Ergonomics.	07
	(b)	<b>OR</b> Describe the Engineering methods of controlling chemical hazards.	07
Q.3	(a)	What is sound Maintenance system? Describe importance and benefits of	07 07
<b>C</b>	()	sound Maintenance systems.	
	<b>(b</b> )	Discuss Equipment Life cycle with Bath Tub Curve. OR	07
Q.3	(a)	What is Reliability and Availability? Explain the factors affecting Reliability and Availability.	07
	(b)	What is equipment breakdown? Explain the major causes of equipment breakdowns.	07
Q.4	(a)	What is Total Productive Maintenance? Discuss Methodology and implementation of TPM.	07
	<b>(b</b> )	Write short notes on (i) Maintenance Categories. (ii) Maintenance Organizations and economics.	07
		OR	
Q.4 Q.4	(a) (b)	Discuss Principles and methods of Lubrication with suitable application. Write short notes on (i) Preventive Maintenance (ii) Fault tree Analysis	07 07
Q.5	(a) (b)	What is Condition monitoring? Describe on-load and off load Testing. Write short notes on (i) Noise Vibration and harness analysis of machines. (ii) Temperature sensitive tapes (iii) MTTR	07 07
0.5		OR	

- Q.5 (a) Write Methods and instruments for Condition Monitoring with suitable 07 example.
  - Write short notes on (i) Measures for Maintenance Performance. (ii) 07 **(b)** Firefighting equipment (iii) MTBF.

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