GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (old) - EXAMINATION – SUMMER 2017			
Subject Code:181905 Date:06			17
Subject Name: Industrial Safety & Maintenance Engineering			
Time:10:30 AM to 01:00 PM Total Marks:			70
Instructions:			
 Attempt all questions. Make quitable assumptions whenever passage my 			
 Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 			
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Q.1	(a)	What is industrial safety? How is it associated with risk?	07
V .1	(b)	Explain the possible steps and measures to be taken by factory management and	07
		government with respect to industrial safety	
Q.2	(a)	Discuss causes of accident in industrial plant What is sofety trial? Explain in brief	07 07
	(b)	What is safety trial? Explain in brief OR	07
	(b)	State the types of hazards and explain any three in detail with possible causes and	07
		remedial actions	
Q.3	(a)	What are the causes of equipment breakdown?	07
-	(b)	Discuss types of costs associated in maintenance	07
		OR	
Q.3	(a)	Explain the methodology and implementation of TPM	07
	(b)	Explain the process of FMEA	07
Q.4	(a)	What is reliability and availability? Explain the factors affecting both	07
	(b)	Discuss equipment life cycle with bath tub curve	07
Q.4	(a)	OR What is condition monitoring? Explain in brief methods of condition monitoring	07
Q.4	(a) (b)	Write short note on temperature sensitive tape	07
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Q.5	(a) (b)	Explain occupational disease caused due to physical conditions What is fault tree analysis? Explain in detail	07 07
	(U)	OR	07
Q.5	(a)	What are the functions of lubrication? Give tips on lubrication	07
-	(b)	Explain the role of ESI Act for industrial safety. Discuss in brief	07
