Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER- VI• EXAMINATION - SUMMER 2015** 

	-	Code:161505 Date:12/05/201 Name:Maintenance & Safety Engineering	5
Ti	-	0:30 am to 01:00 pm Total Marks: 7	70
	1. 2. 3.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b	What is maintenance? Explain primary and secondary functions of maintenance. What do you mean by accident? Classify various types of accidents.	07 07
Q.2	(a) (b)	What are the first degree and second degree industrial hazards? State and explain the factors to be considered while deciding basic organization structures of maintenance.	07 07
	<b>(b)</b>	<b>OR</b> What is repair complexity? Explain the role of repair complexity in maintenance planning.	07
Q.3	(a) (b)	State and explain the objectives of accident investigation.  Write note on safety considerations in design of equipments.  OR	07 07
Q.3	(a)	What is service life of an equipment? discuss the factors which affect the service life.	07
	<b>(b)</b>	What measures you will take for good house/workshop keeping?	07
Q.4	(a) (b)	Discuss the methods of detecting wear and tear in reciprocating parts.  What are the causes of accidents in stores? What safety measures would you recommend in the stores?	07 07
		OR	
<b>Q.4</b>	(a)	What is corrective / breakdown maintenance ? What are the typical causes of equipment breakdown ?	07
	<b>(b)</b>	Write note on requirements of good preventive maintenance.	07
Q.5	(a) (b)	Write note on safety and produvtivity. Write note on evaluation of maintenance performance.  OR	07 07
Q.5	(a)	Explain the statement: 'Extent of preventive maintenance should be such that it may not become uneconomical'.	07
	<b>(b)</b>	Write note on : Safety training and publicity.	07

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