Coot No.	Englasse Na
Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-VIII EXAMINATION - SUMMER 2016

	-	ect Code:X81904 Date:05/05/2016 ect Name:Indusrial Safety and Maintenance Engineering	
T	ime	:10:30 AM TO 01:00 PM tions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain role of safety education and training in industry. Discuss: Equipment life cycle.	07 07
Q.2	(a) (b)	Discuss the risk associated with industrial work. Discuss the cost of accidents.	07 07
	(b)	OR Discuss principles and methods of lubrication with suitable application.	07
Q.3	(a)	What is equipment breakdown? Explain the major causes of equipment	07
	(b)	Breakdowns. What is Reliability and Availability? Explain the factor affecting the Reliability and Availability.	07
0.3	(a)	OR	07
Q.3	(a)	Write short notes on (i) Maintenance Categories. (ii) Maintenance Organizations and economics.	U/
	(b)	What is Total productive maintenance? Discuss methodology and implementation of TPM.	07
Q.4	(a)	Write short notes on (i) Workman's compensation Act.	07
	(b)	(ii) Ergonomics (iii) Boiler Act. How industrial psychology is helpful in preventing accident in Industries? OR	07
Q.4	(a)	Discuss classification of hazardous conditions in industrial plant.	07
	(b)	Discuss major benefits covered in ESI Act, 1948.	07
Q.5	(a) (b)	Discuss objectives and advantages of planned maintenance. Discuss major welfare factors in Factory Act, 1948. OR	07 07
Q.5	(a)	What is mean by unplanned maintenance? Discuss in details.	07
	(b)	Discuss fault tree analysis.	07
