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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION - WINTER 2018			
Subject Code:2161305 Date:27/11			27/11/2018
Subject Name:Occupational Health and Safety			
Time: 02:30 PM TO 05:00 PM Total Marks:			Marks: 70
Instructions:			
		Attempt all questions.	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
0.1			0.2
Q.1	(a)	Explain: (i) MSDS (ii) EHS (iii) LD ₅₀	03
	(b)	State the various routes of entry of toxicants in to the human body.	04
	(c)	Classify the various Occupation Health Hazards.	07
Q.2	(a)	What are the five Es of accident prevention?	03
	(b)	Explain the various Reasons for accident prevention.	04
	(c)	Give the difference between (i) HAZOP & HAZEN (ii) PHA & FN OR	MEA. 07
	(c)	Write a short note on "Threshold Limit Values (TLVs) and its significance".	07
Q.3	(a)	What do you mean by the term quantitative risk assessment	03
	(b)	Discuss application of Ergonomics for safety and health.	04
	(c)	Write a short note on "Fault Tree Analysis".	07
		OR	
Q.3	(a)	What are the Factors Impending Safety?	03
	(b)	Explain the constituents of Ergonomics.	04
	(c)	Write a short note on "Event Tree Analysis".	07
Q.4	(a)	Discuss the symptoms and precautions of Pneumoconiosis.	03
	(b)	Explain the fire prevention activities.	04
	(c)	What is Safety management? What are its objectives?	07
		OR	
Q.4	(a)	Discuss the symptoms and precautions of Byssinosis.	03
	(b)	Draw & explain the pyramid of fire.	04
	(c)	Explain the concept & philosophy of Safety.	07
Q.5	(a)	Discuss the major accidental hazards.	03
	(b)	Discuss the various factors which affect the selection of PPE.	04
	(c)	Explain the effect of electrical parameters on human body.	07
		OR	
Q.5	(a)	State the main electric hazards.	03

(b) Write down the need of personal protective equipment.

(c) Write a short note on "Safety Measures for Electrical Work".