GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER – VI (NEW).EXAMINATION – WINTER 2016

Sı	ıbjeo	et Code: 2161305 Date: 25/10/2016	
Subject Name: Occupational Health and SafetyTime: 10:30 AM to 01:00 PMTotal Marks: 70Instructions:			
111		1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	(a)	Define following terms: (1) fire point (2) accident (3) safety guard (4) PPE (5) risk (6) fire pyramid (7) Ergonomics	07
	(b)	Explain the concept & phylosophy of safety.	07
Q.2	(a)	Explain the routes of entry of toxic material in to human body.	07
	(b)	Explain the effect of electrical parameters on human body.	07
		OR	
	(b)	Write a safety measures for electrical work.	07
Q.3	(a)	List down the five "E" of accident prevention & explain in detail.	07
	(b)	What are the different types of hazards which is related with different body part? for that which type of PPE is necessary. OR	07
Q.3	(a)	Explain the factor affecting the selection of PPE.	07
	(b)	Write down the fundamentals of accident prevention.	07
Q.4	(a)	What is safety management? Give the objectives of safety management.	07
	(b)	Write a short note on Explosion control devices.	07
		OR	
Q.4	(a)	What is fire? Give classification of fire. Explain some causing of fire . explain fire triangle in detail.	07
	(b)	Explain application of Ergonomics for safety & health.	07
Q.5	(a)	Write a short note on "HAZOP".	07
	(b)	What do you mean by faul tree analysis? Explain in detail.	07
		OR	
Q.5	(a)	Write a short note on "PHA".	07
	(b)	What do you mean by even tree analysis? Explain in detail.	07