Seat No.:	Employee No
Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

	•	Code: 2161305 Name: Occupational Health and Safety	Date: 03/05/2017
Ti	njecu me: 1 tructio	Total Marks: 70	
IIIS	1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1		<b>Short Questions</b>	14
	1	Define Occupational Health.	
	2	What is APELL?	
	3 4	What is Accident? What do you mean by the term Safety?	
	5	What do you mean by Ergonomics?	
	6	Define Fire.	
	7	What is HAZOP?	
	8	What is HAZAN?	
	9	What is Threshold limit value?	
	10	What is Lethal Concentration?	
	11 12	What is Permissible exposure limit?	
	13	Enlist routes of entry of toxic material into human body. What is ALARP?	
	14	What do you mean by Risk?	
Q.2	(a)	Enlist occupational diseases due to metals & dusts.	03
	<b>(b)</b>	Give classification of Occupational health hazards.	04
	<b>(c)</b>	Explain the concept & philosophy of Safety.  OR	07
	<b>(c)</b>	Explain the application of Ergonomics for safety and health.	07
Q.3	(a)	Explain fire triangle.	03
C	<b>(b)</b>	Explain in brief Explosion control devices.	04
	<b>(c)</b>	Write a short note on Safety organization.	07
		OR	
Q.3	(a)	What do you mean by Accident prevention?	03
	(b)	Give classification of Fire. What is Safety management? What are its objectives?	04 07
	(c)	·	
<b>Q.4</b>	(a)	What do you mean by PHA?	03
	<b>(b)</b>	Explain in brief On-site emergency plan.	04
	<b>(c)</b>	Write a short note on FMEA.  OR	07
Q.4	(a)	What do you mean by Hazard ranking?	03
דיּץ	(b)	Write safety measures for electrical work.	04
	(c)	Write a short note on HAZOP.	07
Q.5	(a)	What is the need of PPE?	03
~	(b)	Enlist the factors impending Safety.	04
	(c)	Explain Event Tree Analysis in detail.	07

## OR

Q.5	(a) What do you mean by the term Total safety?		03
	<b>(b)</b>	Enlist the factors affecting the selection of PPE.	04
	<b>(c)</b>	Explain Fault Tree Analysis in detail.	07

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