Seat	No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M.E –II st SEMESTER–EXAMINATION – JULY- 2012	
Sub	ject	code: 1721709 Date: 14/07/201	2
	•	Name: Environmental and Occupational Health and Safety	
	-	0:30 am – 13:00 pm Total Marks: 7	70
		tions:	
		tempt all questions.	
		ake suitable assumptions wherever necessary.	
		gures to the right indicate full marks.	
Q.1		Define and describe the following terms in brief:	07
		(1) Occupational hazard (5) Risk & Risk analysis	
		(2) Incident (6) Safety Audit	
		(3) Continual Improvement (7) Emergency Plan	
		(4) Occupational Health & Safety Management System	
	(b)	Describe the various causes of industrial accidents and explain approaches to prevent such accidents.	07
Q.2	(a)	Describe in detail ISO 14001: Environmental Management System.	07
Q. -	(b)	What do you understand by first aid? Explain its principle. Describe the various	07
	(2)	events demanding first aid.	0,
		OR	
	(b)	Explain the various agents responsible for different occupational diseases.	07
		Describe any one occupational disease in detail.	
Q.3	(a)	What are the requirements of safe guarding of Machine? Describe the causes	07
	(b)	and probable places of mechanical hazards and accidents.	07
	(b)	Enlist the different types of Personal Protective Equipments (PPE) and describe any two in detail.	07
		OR	
Q.3	(a)	State the various advantages of good lighting and explain the principles of good	07
~	(33)	lighting.	•
	(b)	Explain the objectives of emergency planning. Describe in detail onsite	07
	` ′	emergency plan.	
Q.4	(a)	Describe the various classes of fire and control measures for each classes of	07
		fire.	
	(b)	Explain the Main safety measures to be followed for electrical work.	07
~ .		OR	٥.
Q.4	(a)	What do you mean by Ergonomics? Give the application of ergonomics to	07
0.4	(L .)	improve the health and safety of the workers at work places.	07
Q.4	(b)	Describe stepwise the requirements of Occupational Health and Safety	07
		management system as per OHSAS 18001:2007.	
Q.5	(a)	Give the back ground of evolution of ISO 14000 series of standards.	07
Q. .5	(b)	Describe in detail Audit programme, responsibility and resource procedure.	07
	(10)	OR	01
Q.5	(a)	Briefly describe the various standards included in ISO 14000 series.	07
-	(b)	What do you understand by Environmental Audit? Describe it in detail.	07
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