Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER - II • EXAMINATION - SUMMER • 2013

Sub	ject	code: 1721709 Date: 07-06-2013	
Sub	ject	Name: Environmental and Occupational Health and Safety	
Tin	ne: 1	0.30 am – 01.00 pm Total Marks: 70	
Ins	truc	tions:	
		 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	Define & Describe the following terms in brief: (1) Occupational Environmental (2) Occupational Hazard and diseases. (3) Incident & Accident. (4) Corrective & Preventive action. (5) Personal Protective Equipment. (6) Environmental policy. (7) Emergency & Emergency Plan.	07
	(b)	Explain the different Acts and conditions responsible for Industrial Accident. Draw & Explain various Accident Prevention Signs.	07
Q.2	(a)	Describe in detail Environmental Management System (EMS) Model for ISO 14001 Standard.	07
	(b)	What do you understand by First Aid? Explain its Principle. Describe the Various events demanding First Aid.	07
	(b)	OR Enlist the different control measures to prevent Occupational Diseases and Explain any One Control measure in detail.	07
Q.3	(a)	Enlist the different Methods of Machine Safe Guarding and Explain any Two in details.	07
	(b)	Make a list of different Personal Protective Equipments (PPE) used for protection of Respiratory System and Explain any Two in details. OR	07
Q.3	(a) (b)	Describe Types of Emergency Plan and Explain any One in detail. Give the necessary conditions required to provide the safe working Environment at Work Place.	07 07
Q.4	(a)	Enlist various routes of entry of toxic substances in human body with their toxic effects.	07
	(b)	Define Ergonomics and give the application of Ergonomics to improve the health and safety of the workers at work place. OR	07
Q.4 Q.4	(a) (b)	Describe the various classes of fire and control measure for each classes of fire. Define occupational health and safety management system. Explain OH&S management system Model for OHSAS 180001	07 07
Q.5	(a) (b)	Explain objectives, methodology and benefits of Environmental Audit. Explain Environmental Performance Evaluation (EPE) and Describe in details Objectives and Benefits. OR	07 07
Q.5	(a)	Explain the aims and objective of Environmental Labeling.	07
~.	(b)	Define EMS. Explain the key elements of EMS-ISO 140000	07
