

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2014**

**Subject code: 1721709**

**Date: 25-06-2014**

**Subject Name: Environmental and Occupational Health and Safety**

**Time: 02:30 pm - 05:00 pm**

**Total Marks: 70**

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Define: 7  
(1) Ergonomics (2) Disaster  
(3) Environmental performance (4) Prevention of Pollution  
(5) Occupational Environment (6) Threshold Limit value  
(7) Hazard and Hazard Identification  
(b) Give the classification of Accidents. 7
- Q.2** (a) Explain the Environmental performance evaluation (EPE) and its objective. 7  
(b) Explain Occupational Health and Safety management system model for OHSAS 18001. 7
- OR**
- (b) Describe types of Emergency plan and Explain any one in detail. 7
- Q.3** (a) Discuss the concept of ISO 14000. 7  
(b) Explain objective, methodology and benefits of Environmental Audit. 7
- OR**
- Q.3** (a) Enlist different Accident causation theories and explain any one in detail. 7  
(b) Describe effect and hazards of noise along with control. 7
- Q.4** (a) What do you mean by fire extinguisher? Enlist different types of fire extinguisher and explain any one. 7  
(b) What do you mean by Personal Protective Equipment (PPE)? Explain any two respiratory protective equipment. 7
- OR**
- Q.4** (a) What are the aim and objective of Environmental Labeling? 7  
(b) What is the role of "Life cycle assessment" in Environment impact Assessment as per ISO 14040. 7
- Q.5** (a) Short Note: Risk Management 7  
(b) Enlist the different occupational Diseases and explain engineering control for prevention it. 7
- OR**
- Q.5** (a) Explain the principles of First Aid and Enlist various events demanding first Aid. 7  
(b) Describe in brief various methods of machine safe guarding. 7

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