Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME Semester –II Examination Dec. - 2011

Subject code: 1721709 **Date: 19/12/2011**

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 and describe the following terms in brief: **07**

(1) Occupational Diseases.
(2) Occupational Health services
(3) Risk analysis
(4) Environmental Policy
(5) Occupational Health
(6) Environmental Impact
(7) Audit & Auditor

(b) Describe the various agents responsible for different occupational diseases. Describe any two occupational diseases in detail. **07**

Q.2 **(a)** Define first aid. Explain its principle. Explain the various events demanding first aid. **07**

(b) Enlist the different control measures to prevent occupational diseases and explain any one control measure in detail. **07**

OR

(b) Describe various acts and conditions responsible for the industrial accidents. **07**

Q.3 **(a)** Define Machine safe guarding & describe in brief any two methods of machine safe guarding. **07**

(b) Define Personal Protective Equipments (PPE) and describe any two PPE in detail. **07**

OR

Q.3 **(a)** Enlist types of emergency plan and explain in brief. **07**

(b) Explain various classes of fire and control measures for each classes of fire. **07**

Q.4 **(a)** Describe the adverse effects and hazards due to excessive noise at work place. **07**

(b) Give the application of ergonomics to improve the health and safety of the workers at work places. **07**

OR

Q.4 **(a)** State the various advantages of good lighting and explain the principles of good lighting. **07**

Q.4 **(b)** Explain in detail various key elements of Occupational Health and Safety management system Model for OHSAS - 18001. **07**

Q.5 **(a)** Briefly describe the various standards included in ISO 14000 series. **07**

(b) Define Environmental Management System (EMS). Describe in detail EMS – ISO 14000. **07**

OR

Q.5 **(a)** Explain Environmental performance evaluation (EPE) and describe the objectives and benefits. **07**

(b) What do you understand by Environmental Audit? Describe it in detail. **07**

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