

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – III • EXAMINATION – WINTER • 2014****Subject code: 731804****Date: 27-11-2014****Subject Name: Industrial Hygiene 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) Write a short note on Concept of Environment, Health and Safety with their Functions. **07**
(b) Briefly explain the objectives of Industrial Hygiene. **07**
- Q.2** (a) Explain the role of Industrial Hygienist and Safety Officer in an Industry. **07**
(b) Classify the personal protective equipments **07**
OR
(b) Write a short note on Respiratory Personal Protective Equipments. **07**
- Q.3** (a) Briefly explain the classification of Occupational Hazards. **07**
(b) Write a short note on Biological Monitoring with their merits and demerits. **07**
OR
- Q.3** (a) Enlist the types of ventilation and explain any one in detail. **07**
(b) Write hierarchy of Control and explain it in detail. **07**
- Q.4** (a) Explain the following terms: **07**
(a) Threshold limit value (b) ACGIH (c) TWA (d) STEL (e) BEL (f) MSDS (g) EHS
(b) Define ergonomics. Write the benefits and application of ergonomics with example. **07**
OR
- Q.4** (a) Write a short note on Administrative Control applied in industry. **07**
Q.4 (b) Write a short note on Engineering Control applied in industry. **07**
- Q.5** (a) Define Noise. What are the preventive measures to reduce the effect of noise? **07**
(b) Enlist Occupational Diseases and explain any one in detail. **07**
OR
- Q.5** (a) Give the difference between HAZAN and HAZOP. **07**
(b) What is risk assessment? Explain it with Procedure. **07**
