

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – III • EXAMINATION – WINTER • 2013****Subject code: 731804****Date: 28-11-2013****Subject Name: Industrial Hygiene and Safety****Time: 10.30 am – 01.00 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)** Discuss basic concept of EHS (Environment, Health and Safety) programme and their integration. **07**
- (b)** Differentiate between industrial hygiene and occupational health **07**
- Q.2 (a)** Write down benefits of industrial hygiene with reference to environmental management. **07**
- (b)** Discuss role of Safety officer, Environmental engineer, Medical officer in EHS. **07**
- OR**
- (b)** Write a short note on Biological Monitoring. **07**
- Q.3 (a)** Write a short note on Significance of TLV, STEL, Ceiling limit, BELs. **07**
- (b)** Write a short note on PPE. **07**
- OR**
- Q.3 (a)** Write basic concept and principle of engineering control in Industrial safety. **07**
- (b)** How housekeeping is important in EHS? **07**
- Q.4 (a)** Write a short note on HAZOP. **07**
- (b)** Write a short note on HAZEN. **07**
- OR**
- Q.4 (a)** Define ventilation and discuss general principle of ventilation. **07**
- (b)** Write short note on local exhaust ventilation system and testing of ventilation system. **07**
- Q.5 (a)** Discuss effects and control of Noise. **07**
- (b)** Write a short note on toxic effects of heavy metals. **07**
- OR**
- Q.5 (a)** Discuss application of ergonomics for safety and health. **07**
- (b)** Enlist occupational diseases and discuss any one in detail. **07**
