

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Sem-III Regular Examination January 2011

Subject code: 731804

Subject Name: Industrial Hygiene & Safety

Date: 10 /01 /2011

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) Describe the concept of industrial hygiene and safety. **07**
(b) Discuss physical hazards in industry. **07**
- Q.2** (a) Write short note on material safety data sheet (MSDS). **07**
(b) Write short note on personnel protective equipment. **07**
- OR**
- (b) Describe the use of local exhaust ventilation system in an industry. **07**
- Q.3** (a) What are the chemical hazards? Discuss in detail. **07**
(b) How to prevent industrial hazards? **07**
- OR**
- Q.3** (a) Write note on heat stress and electrical hazards. **07**
(b) What are the objectives of Factory's Act? **07**
- Q.4** (a) Write occupational Health problems in various industries. **07**
(b) Describe the safety and hygiene aspects required in a textile mill. **07**
- OR**
- Q.4** (a) What is HAZOP? Discuss in detail. **07**
(b) Write note on occupational diseases. **07**
- Q.5** (a) Write note on adverse effect of silica dust. **07**
(b) Write note on safety survey and biological monitoring. **07**
- OR**
- Q.5** (a) Write note on Safe Operating Procedure (SOP). **07**
(b) Explain following term; **07**
1. STEL
 2. LD₅₀
 3. LC₅₀
 4. Decible
 5. Flash Point
 6. Fire Point
 7. Ignition Temperature
