

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- VIth SEMESTER-EXAMINATION – MAY- 2012****Subject code: 161305****Date: 19/05/2012****Subject Name: Occupational Health & 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) Define: occupational diseases. Group them under physical agents, chemical agents, and biological agents. **07**
- (b) What do you mean by the term ergonomics? Explain applications of ergonomics. **07**
- Q.2** (a) Explain accident causative factors. **07**
- (b) Write a short note: Bhopal Gas Tragedy **07**
- OR**
- (b) What are the factors impeding safety? **07**
- Q.3** (a) Define safety organization and enlist the objectives of safety organization. **07**
- (b) Enlist the main safety measures for electric work and explain any two in detail. **07**
- OR**
- Q.3** (a) Define: Risk, TLV – STEL, and safety audit. **07**
- (b) Explain classes of fire. **07**
- Q.4** (a) Write a short note on: Explosion control devices **07**
- (b) Explain in detail: Routes of entry of toxic material into human body **07**
- OR**
- Q.4** (a) Discuss in brief: Failure mode and effect analysis **07**
- (b) With the help of a schematic diagram show how F&EI, MPPD, MPDO and BI are calculated. **07**
- Q.5** (a) Write a short note on fault tree analysis. **07**
- (b) Enlist the main objectives of major hazard control system. **07**
- OR**
- Q.5** (a) Enlist the factors affecting the selection of personal protective equipment (PPE). **07**
- (b) Write a short note: Need for safety **07**
