

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER – VI (OLD).EXAMINATION – WINTER 2016

Subject Code: 161305**Date: 24/10/2016****Subject Name: Occupational Health & Safety****Time: 10:30 AM to 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) Enlist & explain routes of entry of toxic material into human body **07**
(b) Give classification of occupational health hazards **07**
- Q.2** (a) Enlist the dangerous properties of chemicals and explain them in detail **07**
(b) Write a short note: Constituents of Ergonomics **07**
- OR**
- (b) Explain in detail what went wrong in Bhopal Gas Tragedy (1984) **07**
- Q.3** (a) Define: Accident, Danger, Error, Hazards, Injury, Near miss, Risk **07**
(b) Enumerate the philosophy of Accident Causation **07**
- OR**
- Q.3** (a) With the help of a neat sketch, explain reasons for accident prevention **07**
(b) Write a short note: Elements of Management Functions **07**
- Q.4** (a) With the reference to the effects of electrical parameters on human body, give your comments to the severity of shock, effects of voltage, resistance of skin **07**
(b) Enlist the main safety measures for electric work and explain any one in detail. **07**
- OR**
- Q.4** (a) Prepare a checklist for safety in construction industry **07**
(b) Explain with the help of guide words HAZOP **07**
- Q.5** (a) Explain VCE and BLEVE in detail **07**
(b) Write a short note: Need of Personnel Protective Equipment **07**
- OR**
- Q.5** (a) Explain in detail: DOW and MOND index **07**
(b) With reference to occupational diseases, explain the dust control methods **07**
