

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- VI<sup>th</sup> SEMESTER-EXAMINATION – MAY- 2012****Subject code: 160504****Date: 17/05/2012****Subject Name: Pollution Control & Safety Management****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 (1) Hazard (2) Risk (3) Accident (4) LFL (5) LD<sub>50</sub>. (6) Wages (7) Average pay. **07**

(b) Mention the different sources and causes of environmental pollution. What are the steps taken by Government in environmental protection? **07**

**Q.2** (a) List the techniques for hazard identification? Explain HAZOP method in detail. **07**

(b) Explain ecology and how do human intervention affect on ecology alteration. **07**

[ OR ]

(b) What are the different pressure relief devices? Explain any two with neat sketch. **07**

**Q.3** (a) Explain the various types of fire and fire triangle. **07**

(b) Explain in brief Fault and Event Tree Analysis for Risk Prediction. **07**

[ OR ]

**Q.3** (a) Write a brief note on various personal protective equipments. **07**

(b) Write on main features of water pollution control law. **07**

**Q.4** (a) Write a brief note on Environment Audit. **07**

(b) Explain the main features of factory act. **07**

[ OR ]

**Q.4** (a) Write a brief note on Energy audit. **07**

(b) What are the various types of solid waste? Explain any one method for solid waste disposal in brief with schematic diagram **07**

**Q.5** (a) Write a brief note on onsite Emergency Control and disaster planning? **07**

(b) Explain the effect of noise pollution on human beings. **07**

[ OR ]

**Q.5** (a) Write in brief on EIA and EIS. **07**

(b) List the various types of dispersion models used for toxic/flammable materials released into atmosphere and derive the mathematical model for any one of them with its limitations. **07**

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