## B.Tech. MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING)

## **Term-End Examination**

June, 2015

00025

**BME-030: SAFETY ENGINEERING** 

Time: 3 hours

Maximum Marks: 70

**Note:** Answer any **five** questions. All questions carry equal marks.

- 1. (a) What are the diseases commonly suffered by industrial workers?
  - (b) Explain the importance of record-keeping on incidents of ill health and injuries in an industry.
- 2. (a) Define hazard. How is hazard analysed?

  Describe the steps of activities taken during preliminary hazard analysis.
  - (b) Describe the various components that make the cost of an accident. How can the cost of an accident be reduced? Explain. 7+7

- 3. (a) List the various pollutants of water. What are the effects of these pollutants on human beings?
  - (b) Define an industrial environment and distinguish it from general meteorological conditions.
- 4. (a) Discuss the role of UNO in protecting the environment.
  - (b) What are the different convention declarations made by UNO in respect of environmental protection? Explain. 7+7
- 5. (a) What is Municipal Solid Waste? Describe the different categories of MSW.
  - (b) What is industrial waste? Describe the different types of industrial wastes based on physical state.
- 6. (a) What is Household Hazardous Waste (HHW)? Give examples of HHW. Why is disposal of HHW costly?
  - (b) Distinguish between short term acute hazard and long term environmental hazard.

- 7. (a) What is a disaster? Distinguish between a man-made disaster and a natural disaster.
  - (b) What is meant by safety promotion in a company? How is safety promotion established? 7+7
- 8. (a) What is the role of first aid in responding to emergency? Describe the contents of a first aid kit.
  - (b) Why does a fire occur? Describe the fire classes and portable extinguishers used against these fire classes. 7+7