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**BME-030**

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

**Term-End Examination, 2019**

**BME-030 : SAFETY ENGINEERING**

**Time : 3 Hours**

**Maximum Marks : 70**

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

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1. (a) Define an industrial environment and distinguish it from general meteorological conditions. [5]
- (b) Analyse the costs due to injury to worker or due to damage to equipment and property. [5]
2. (a) What are audit functions ? What are the guidelines to plan an audit of safety in an industry ? [5]
- (b) What are the different sources of wastes ? How are solid wastes disposed off ? [5]



3. (a) Describe medical wastes and problems caused by it. What are the different methods of treating medical wastes and its final disposal ? [5]
- (b) What is meant by monitoring ? How can monitoring of machines and processes be used for avoiding hazards ? [5]
4. (a) What is the role of first aid in responding to emergency ? Describe the contents of a first aid kit. [5]
- (b) List the various pollutants of water. What are the effects of these pollutants on human beings ? [5]
5. (a) What is a disaster ? Distinguish between a man-made disaster and a natural disaster. [5]
- (b) What is meant by safety promotion in a company ? How is safety promotion established ? [5]
6. (a) What is ozone hole ? What suggestions were made by UNO to avoid ozone layer depletion ? [5]
- (b) What is aerobic microbial composting ? Distinguish it from vermiculture. [5]

7. (a) Discuss the factors that may affect the recycling programme. [5]
- (b) Write a note on Bhopal Gas disaster, explaining the failures on the part of the company. [5]
8. (a) What are landfill outputs ? Describe how they are managed ? [5]
- (b) What is Household Hazardous Wastes (HHW) ? Give examples of HHW. Why is disposal of HHW costly ? [5]

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