



**Seventh Semester B.E. Degree Examination, June/July 2025**  
**Industrial Safety**

Max. Marks: 100

**Note:** Answer any FIVE full questions, choosing ONE full question from each module.

**Module-1**

- 1 a. Define the following terms as related to Industrial Safety :  
 i) Accident    ii) Hazard    iii) Safety Device    iv) Slip    v) Trip. (10 Marks)  
 b. Mention any six Unsafe Act and Unsafe conditions that leads to Industrial accidents. (06 Marks)  
 c. Briefly explain about OSHA related to Industrial Safety. (04 Marks)

**OR**

- 2 a. List and briefly discuss the eight steps for Safer Lockout / Tagout programs. (08 Marks)  
 b. What is Material Safety Data Sheet (MSDS)? Explain the different sections of MSDS. (08 Marks)  
 c. With a suitable case study, discuss about the safety measures for lab and campus layout. (04 Marks)

**Module-2**

- 3 a. Explain the different class of fire with examples. (08 Marks)  
 b. Explain different types of fire extinguisher with sketches. (12 Marks)

**OR**

- 4 a. Briefly discuss the Fire Triangle. (03 Marks)  
 b. Explain the steps to be taken after the occurrence of fire. (07 Marks)  
 c. Discuss the various types of fire detectors generally used in power plant. (10 Marks)

**Module-3**

- 5 a. Explain the safety precautions to be taken during welding. (10 Marks)  
 b. Discuss the safety precautions to be taken for handling materials with help of  
 i) Cranes    ii) Fork lift. (10 Marks)

**OR**

- 6 a. What are the safety precautions to be taken while storage of gas cylinders in industries. (10 Marks)  
 b. Drums or containers are suspected to have contained hazardous substance which are in use or declared as waste containers. Discuss with a help of chart how the waste containers are handled and disposed. (10 Marks)

**Module-4**

- 7 a. What are primary and secondary electric shocks? Discuss the effect of electric current on human body. (08 Marks)  
 b. Explain the approaches to prevent electrical accidents. (08 Marks)  
 c. Discuss safety precautions in small low voltage residential buildings. (04 Marks)

**OR**

- 8 a. Explain Hazards associated with electric current and voltage. (10 Marks)  
 b. Discuss various safety procedures and paper work to be enforced while commissioning operation and maintenance of electrical installation in an electric plant. (10 Marks)

**Module-5**

- 9 a. List the inspection criteria check list for piping in an L.P.G installation. (10 Marks)  
 b. Discuss the safety precautions for vehicular use of CNG. (10 Marks)

**OR**

- 10 a. Discuss briefly about eye washers and showers used in industries. (10 Marks)  
 b. Explain in detail fire prevention safety audit in industries. (10 Marks)

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