

# CBCS SCHEME

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15ME662

Sixth Semester B.E. Degree Examination, Jan./Feb. 2021

## Industrial Safety

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. Explain Lockout and Tagout procedures followed in industries. (08 Marks)
- b. Define the following terms:
  - (i) Accident
  - (ii) Safety
  - (iii) Hazard
  - (iv) Security(08 Marks)

OR

- 2 a. Explain safety measures to be followed by organization to prevent slips and falls from elevation/on the same level. (08 Marks)
- b. Identify the possible unsafe acts that lead to road accidents. (08 Marks)

### Module-2

- 3 a. With the help of a flow chart, discuss the steps followed after the occurrence of fire mishap. (08 Marks)
- b. Classify fire Extinguishers. Explain with a neat sketch carbon dioxide fire extinguishers. (08 Marks)

OR

- 4 a. Describe fire detection in a thermal power plant. (08 Marks)
- b. With a broad classification, discuss different types of fire. (08 Marks)

### Module-3

- 5 a. Discuss safety measures to be followed while working with lathe machine tool. (08 Marks)
- b. Discuss the safety precautions to be taken for handling materials with the help of Jib crane in industries. (08 Marks)

OR

- 6 a. Drums or containers are suspected to have contained hazardous substances which are in use or declared as waste containers. Discuss with a help of chart how the waste containers are handled and disposed. (08 Marks)
- b. Explain safety precautions for storage of gas cylinders in industries. (08 Marks)

### Module-4

- 7 a. Discuss safety precautions in small low voltage residential buildings. (08 Marks)
- b. Explain the approaches to prevent electrical accidents. (08 Marks)

OR

- 8 a. Explain the effects of electrical current on the human body. (08 Marks)  
b. Describe the safety procedures adopted in electric plant. (08 Marks)

**Module-5**

- 9 a. Write an explanatory note on the safety precautions for the vehicular use of compressed natural gas. (08 Marks)  
b. Explain the responsibilities of division head in the administration of safety programmes in an organization. (08 Marks)

OR

- 10 a. Discuss briefly about eye washers and showers used in industries. (08 Marks)  
b. Write a note on fire prevention safety audit in industries. (08 Marks)

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