

# CBCS SCHEME

USN

18ME753

## Seventh Semester B.E. Degree Examination, June/July 2023 Industrial Safety

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. List and explain the safety measures to adopt while using ladders and scaffoldings. (10 Marks)  
b. Explain the term TRIPS, SLIPS and FALLS with appropriate sketches. (10 Marks)

OR

- 2 a. Mention any five unsafe acts and unsafe conditions that leads to industrial accidents. (10 Marks)  
b. List and explain the types of safety guards employed in machines. (10 Marks)

### Module-2

- 3 a. Write short notes on : i) Flash fire ii) Jet fires iii) Pool fires  
iv) Auto ignition v) Sources of ignition. (10 Marks)  
b. What are the various tips on how and when to use fire extinguisher? (10 Marks)

OR

- 4 a. List and explain the types of portable fire extinguishes used for class A, B, C, D and E fire. (10 Marks)  
b. List and explain the steps required to initiate after occurrence of fire. (10 Marks)

### Module-3

- 5 a. Explain the safety precautions to be taken while working with drilling machine tools. (10 Marks)  
b. Define Personal Protective Equipment (PPE). List and explain the basic types of PPE based on its applications. (10 Marks)

OR

- 6 a. Explain the safety precautions to be taken in welding practices. (10 Marks)  
b. What are the safety precautions to be taken while strong a compressed gas cylinder?(10 Marks)

### Module-4

- 7 a. Define electrical safety. List out the basic factors to be consider ensuring electrical safety in general work place. (10 Marks)  
b. Explain the effect of electric current on human body. (10 Marks)

OR

- 8 a. List and explain the corrective and preventive measures for electrical accidents. (10 Marks)  
b. List and explain the safety precautions against electric shock. (10 Marks)

### Module-5

- 9 a. Explain the various methods for labeling of chemicals. (10 Marks)  
b. With suitable illustration, explain the safety policy imposed on the company. (10 Marks)

OR

- 10 a. Explain the safety precautions to be followed while installing CNG. (10 Marks)  
b. Explain the chemical safety measures required to follow while working in confined space. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42-8-50, will be treated as malpractice.