

# CBCS SCHEME

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18MN751

## Seventh Semester B.E. Degree Examination, Jan./Feb. 2023 Industrial Safety Engineering

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Explain the different steps in casting process. (05 Marks)
- b. Explain hot working process with advantages. (05 Marks)
- c. Explain the working of cupola furnace with neat sketch. (10 Marks)

OR

- 2 a. Explain the process wise hazards and safe methods in foundry, forging operations. (10 Marks)
- b. Explain different heat treatment process and list the precautions to be taken in heat treatment process. (10 Marks)

### Module-2

- 3 a. Define the following: confined spaces, content of permit to work, issuing authority, performing authority. (10 Marks)
- b. Explain Polishing and Buffing operations and list the precautions. (10 Marks)

OR

- 4 a. Explain the method of shot blasting. (10 Marks)
- b. Explain the safety in painting operations with hazards and precautions. (10 Marks)

### Module-3

- 5 a. Explain safety in demolition work. (10 Marks)
- b. Explain drilling and blasting and its safety measures. (10 Marks)

OR

- 6 a. Explain the different types of ladders and OSHA guidelines on ladders safety. (10 Marks)
- b. List the various types of scaffolding and explain any two with sketch. (10 Marks)

### Module-4

- 7 a. Explain safety in mining industry. (10 Marks)
- b. Explain impact of textile industry on environment and its control measures. (10 Marks)

OR

- 8 a. Explain the ceramic processing steps with sketch. (10 Marks)
- b. List the hazards and safety precautions in leather industry. (10 Marks)

### Module-5

- 9 a. Explain the safety in film industry. (10 Marks)
- b. Explain the safety requirements in robots. (10 Marks)

OR

- 10 a. Explain the various safety requirements needed in hospitals. (10 Marks)
- b. Explain the various safety requirements in Nano-technology. (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.