



# CBCS SCHEME

USN 1 A Y 1 7 M 1 0 2 6

17MN561

## Fifth Semester B.E. Degree Examination, Jan./Feb. 2021 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 Cold working process with advantages. (05 Marks)  
c. Explain the working of cupola furnace with neat sketch. (10 Marks)

OR

- 2 a. Explain different heat treatment process and list the precautions to be taken in heat treatment process. (10 Marks)  
b. Explain with neat sketch the principle of hot working process. (10 Marks)

### Module-2

- 3 a. Define the following terms :  
i) Confined space  
ii) Issuing authority  
iii) Area authority  
iv) Performing authority  
v) Content of permit to work (10 Marks)  
b. Explain different type of permit to work with example. (10 Marks)

OR

- 4 a. Explain safety in painting operation with hazard and precautions. (08 Marks)  
b. What are the hazards in cleaning operation? (06 Marks)  
c. Define Polishing and Buffing. List the precautions. (06 Marks)

### Module-3

- 5 a. Explain Drilling and Blasting and its safety measures. (10 Marks)  
b. List various types of scaffoldings and explain any two with sketch. (10 Marks)

OR

- 6 a. Explain the safety precautions while working on bridges. (10 Marks)  
b. Explain safety in demolition work. (10 Marks)

### Module-4

- 7 a. Explain safety in Mining Industry. (10 Marks)  
b. Explain the 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 precaution in Leather industry. (10 Marks)

### Module-5

- 9 a. Explain safety in Nano-technology. (10 Marks)  
b. Explain safety in Robots. (10 Marks)

OR

- 10 Write a note on :  
i) Safety in hospital (10 Marks)  
ii) Safety in film industry. (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.