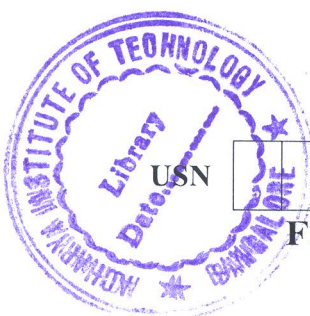


# CBCS SCHEME



--	--	--	--	--	--	--	--	--	--

17MN561

## Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020 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 working of Cupola furnace with neat sketch. (10 Marks)
- b. Explain the different steps in casting process. (05 Marks)
- c. What are the advantages of cold working process? (05 Marks)

OR

- 2 a. Explain with neat sketch, the principle of Hot Rolling Process. (06 Marks)
- b. Explain the different types of Heat treatment methods. (10 Marks)
- c. List the safety precautions to be taken in Heat treatment process. (04 Marks)

### Module-2

- 3 a. Explain different types of permit to work with examples. (10 Marks)
- b. Explain the following :
 

i) Confined space	ii) Content of permit to work	iii) Issuing Authority
iv) Area Authority	v) Performing Authority.	

 (10 Marks)

OR

- 4 a. What are the hazards and safety precautions in welding, cutting and soldering operations? (10 Marks)
- b. Define Polishing and Buffing and list out the hazards and safety precautions. (10 Marks)

### Module-3

- 5 a. Explain different types of Ladder and their uses. (10 Marks)
- b. Explain Drilling and Blasting and its safety measures. (10 Marks)

OR

- 6 a. Explain various types of Scaffoldings. (08 Marks)
- b. Explain Trenching. (04 Marks)
- c. Explain Safety in demolition work. (08 Marks)

### Module-4

- 7 a. Explain safety in Mining Industry. (10 Marks)
- b. Explain the impact of Textile Industry on environmental and its control measures. (10 Marks)

OR

- 8 a. Explain with flow chart the process of Leather making. (08 Marks)
- b. Write a note on Fertilizer Industry. (04 Marks)
- c. Explain different type of cements with their uses. (08 Marks)

### Module-5

- 9 a. Explain different configuration of robots. (10 Marks)
- b. Explain safety in Nano technology. (10 Marks)

OR

- 10 a. Explain safety in hospital. (10 Marks)
- b. Write a note on Safety in Film Industry. (10 Marks)

\*\*\*\*\*

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.