

CBCS SCHEME

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15ME662

Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020 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. Identify various types of work place hazard in a process industry. (08 Marks)
b. Distinguish between unsafe act and unsafe condition with suitable example. (08 Marks)

OR

- 2 a. Identify the need for Lockout and Tagout system. Illustrate with suitable examples. (08 Marks)
b. List the information described in MSDS and explain its significance in hazard control. (08 Marks)

Module-2

- 3 a. Apply the concept of fire triangle to discuss fire extinguishing process. (08 Marks)
b. Explain the various types of fire detection and Alarm system and justify its requirement in fire protection and loss prevention. (08 Marks)

OR

- 4 a. Develop the matrix on classification fire and recommend which type of fire extinguishing system is suitable for each class is fire. (08 Marks)
b. Explain with neat sketch of Carbon dioxide extinguisher. (08 Marks)

Module-3

- 5 a. Explain the safety measure for lathe and milling machine. (08 Marks)
b. Identify the general personal protective Equipment and explain any three. (08 Marks)

OR

- 6 a. Explain the general safety measure for machine shop. (08 Marks)
b. What are the basic safety procedure concerning corrosives. (08 Marks)

Module-4

- 7 a. List the various hazards of Electricity. (04 Marks)
b. Explain the effect of electric current on heart and lung. (06 Marks)
c. State the root causes of accident at construction site. (06 Marks)

OR

- 8 a. Explain the principle of unsafe acts and unsafe conditions behind electrical accident. Give an example. (08 Marks)
b. Identify ten preventive measures to prevent shocks in a substation. (08 Marks)

Module-5

- 9 a. Explain Acid hoods and handling of acids. (04 Marks)
b. Explain the safety precautions using CNC and LPG. (06 Marks)
c. Write a short note on safety Audit and risk assessment. (06 Marks)

OR

- 10 a. Explain eye washer's and shower. (04 Marks)
b. Write briefly safety thinking and accident investigation. (06 Marks)
c. Explain the safety policy of the company. (06 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.