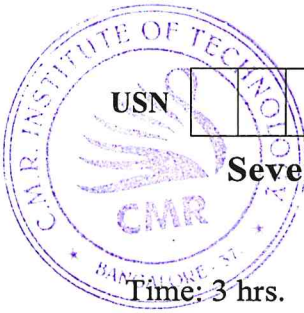


CBCS SCHEME



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18ME753

Seventh Semester B.E. Degree Examination, July/August 2022 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. Define the following terms giving an example for each :
i) Safety ii) Precaution iii) Hazard iv) Appliance. (10 Marks)
b. What is Material Safety Data Sheet (MSDS)? Explain the different section of MSDS. (10 Marks)

OR

- 2 a. Categorize Workplace hazards. Explain each with suitable examples. (10 Marks)
b. Explain Lockout and Tagout procedures followed in Industries. (10 Marks)

Module-2

- 3 a. Explain Fire Tetrahedron. Discuss the fire extinguishing process for each of the elements of fire tetrahedron. (10 Marks)
b. What are the different classes of fire? Explain each with examples. (10 Marks)

OR

- 4 a. Briefly explain the following : i) Combustion ii) Pool fires iii) Fire point iv) Sources of Ignition. (10 Marks)
b. Explain the steps to be taken after the occurrence of fire. (05 Marks)
c. Explain with a neat sketch, carbon dioxide fire extinguisher. List the method of operation. (05 Marks)

Module-3

- 5 a. What are Personal Protective Equipments? Explain PPEs meant to protect head, hand and respiratory tract. (10 Marks)
b. Discuss Safety measures to be followed while working with Lathe machine tool. (10 Marks)

OR

- 6 a. Explain any four mechanical actions that can trap hands and cause amputations. (05 Marks)
b. Discuss the different types of gloves that can provide protection against heat, electricity, chemicals and abrasion. (05 Marks)
c. Explain the procedure to be followed while disposing empty hydrocarbon containers. (10 Marks)

Module-4

- 7 a. Discuss the approaches to prevent electrical accidents. (10 Marks)
b. Explain the effects of electrical current on Human body. (10 Marks)

OR

- 8 a. List and describe various PPE used while handling electrical equipments. (10 Marks)
b. Describe the safety procedures adopted in electric plant. (10 Marks)

Module-5

- 9 a. What is Chemical Safety? List and explain various chemical hazards. (10 Marks)
b. Explain the safety precautions using LPG. (04 Marks)
c. Explain Eye washers and shower. (06 Marks)

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OR

- 10 a. Discuss the guidelines to be followed when working with chemicals. (10 Marks)
b. List the different questions to be asked during a chemical accident investigation. (10 Marks)
