## CBCS SCHEME

USN

First Semester M.Tech. Degree Examination, Jan./Feb. 2021 Occupational Safety and Health

Max. Marks: 100 Time: 3 hrs.

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

Module-1

 Define and explain the concept and scope of occupational safety and health. (10 Marks) Write a note on Human exposure and Occupational impact of environmental factors on

health. (10 Marks)

 Explain the Right to know OSHA laws. (10 Marks)

b. Write a note on various types of occupational diseases and their spread. Also suggest preventive measure to curb the spread. (10 Marks)

Module-2

Define Ergonomics. Write a note on Musculo skeletal disorders and its preventive measures.

(10 Marks) b. Discuss 'Emergency Response' in detail. (10 Marks)

a. Explain briefly the factors associated with physical stress. (08 Marks)

Explain Ergonomics programme and its elements in detail. (12 Marks)

Module-3

a. Explain the types of fire (10 Marks)

Explain fire triangle with its significance. Also discuss the need for prevention of fire.

(10 Marks)

What is Fire Extinguisher? Classify fire extinguishers and explain in detail. (15 Marks)

Write a note on Electrical Safety.

(05 Marks)

Module-4

What is Accident? List down the causes, effects and some preventive measures regarding accidents in occupation. (10 Marks)

Explain the types and advantages of PPE. (10 Marks)

Write a note on accident investigation and briefly explain the need for accident investigation. (10 Marks)

Explain the considerations taken in 'Estimation of Cost of Accidents' (10 Marks)

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## Module-5

9 Explain the roles and responsibilities of Workers, Managers and Supervisors in Occupational Safety and Health Hazard Considerations.
(20 Marks)

OR

- 10 Explain OSHA considerations of :
  - a. Waste water treatment plants.
  - b. Construction site.
  - c. Textile Industry.
  - d. Chemical Industry.

(20 Marks)

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