

USN

18CV653



Sixth Semester B.E. Degree Examination, June/July 2025

**Occupational Health and Safety**

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing ONE full question from each module.***Module-1**

- 1 a. Discuss the History of safety development. (10 Marks)
- b. Explain : i) Accident ii) Hazard iii) Risk iv) 3E's. (10 Marks)

**OR**

- 2 a. Outline the significance of health provisions under the factories Act, 1948. (10 Marks)
- b. Explain National Safety Policy. (10 Marks)

**Module-2**

- 3 a. Highlight the approaches for conducting a task analysis. (10 Marks)
- b. Define ergonomics, list the benefits of ergonomics. (10 Marks)

**OR**

- 4 a. Out line the approaches for preventing ergonomic hazard. (10 Marks)
- b. Explain the fault free analysis. (10 Marks)

**Module-3**

- 5 a. Elaborate the different classes of fire. (10 Marks)
- b. Briefly explain NFPA Hazard Diamond. (10 Marks)

**OR**

- 6 a. Highlight the various types of fire extinguisher with explanation. (10 Marks)
- b. Discuss the fire development severity and duration with graph. (10 Marks)

**Module-4**

- 7 a. Outline the various types of diseases and their spread at work place. (10 Marks)
- b. Discuss the importance of the health emergency at work place. (10 Marks)

**OR**

- 8 a. High light the significance personal protective equipments and its classification. (10 Marks)
- b. Explain the effect of exposure to municipal solid waste. (10 Marks)

**Module-5**

- 9 a. Identify common hazards and occupational health concerns in a cement plants. (10 Marks)
- b. Identify common hazards and occupational health concerns in a water and waste water treatment plants. (10 Marks)

**OR**

- 10 a. Identify common hazards and occupational health concerns in a precast plants. (10 Marks)
- b. Identify common hazards and occupational health concerns in a construction site. (10 Marks)

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