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18CV653

**Sixth Semester B.E. Degree Examination, July/August 2022**  
**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. Write a short note on History of Safety Movement. (06 Marks)  
b. Write a detailed note on Occupational Safety and Health Administration Act. (10 Marks)  
c. Briefly explain Right to Know Laws. (04 Marks)

**OR**

- 2 a. What is an accident? What are the causes of accident? List the different accident causation, investigation models. (10 Marks)  
b. Briefly discuss on supervisor's role in accident investigation. (10 Marks)

**Module-2**

- 3 a. Explain the steps to be taken for preventing Ergonomic hazards. (08 Marks)  
b. Briefly explain Fault Tree Analysis with aid of neat sketch. (08 Marks)  
c. Write a short note on Human Error Analysis. (04 Marks)

**OR**

- 4 a. What is Ergonomics and what are its benefits? (08 Marks)  
b. In detail, explain "Work Site Analysis Programme" for Ergonomics. (12 Marks)

**Module-3**

- 5 a. Write a detail note on Fire Development and its severity. (10 Marks)  
b. Define fire and explain different types of fire. (10 Marks)

**OR**

- 6 a. Classify fire extinguishers and explain in brief. (08 Marks)  
b. Write an explanatory note on electrical safety. (06 Marks)  
c. Explain technical requirements of Product Safety. (06 Marks)

**Module-4**

- 7 a. Classify diseases and write a note on their spread. (10 Marks)  
b. What is PPE? List their types and explain advantages of each. (10 Marks)

**OR**

- 8 a. Explain environmental management plans for safety and sustainability with respect to construction industry. (10 Marks)  
b. Enumerate effects of exposure and treatment in Municipal Solid Waste Treatment Site. (10 Marks)

**Module-5**

- 9 a. Explain the health and safety aspects to be considered in waste water treatment plants. (10 Marks)  
b. Discuss the potential hazards for workers at construction site. (10 Marks)

**OR**

- 10 a. Discuss the occupational health hazard posed in a cement manufacturing industry. (10 Marks)  
b. Briefly discuss the roles and responsibilities of workers and managers in safety programs. (10 Marks)

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