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Seventh Semester B.E. Degree Examination, Dec.2024/Jan.2025 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 as related to industrial safety:
- i) Accident
 - ii) Slip
 - iii) Hazard
 - iv) Precaution
- (10 Marks)
- b. List and briefly discuss the steps for safer lockout/tagout programs. (10 Marks)

OR

- 2 a. What are the type of standard used in occupation safety and health administration (OSHA)? (10 Marks)
- b. What is unsafe act and unsafe conditions that lead to industrial accidents? (10 Marks)

Module-2

- 3 a. List the various classes of fire explain in brief. (08 Marks)
- b. Explain the steps to be taken after the occurrence of fire. (12 Marks)

OR

- 4 a. What is fire triangle explain in brief with a line diagram. (08 Marks)
- b. Write a notes on:
- i) Fire extinguishers
 - ii) Safety sign boards
 - iii) Fire protection and loss prevention.
- (12 Marks)

Module-3

- 5 a. What is Personal Protective Equipment (PPE)? Mentions their applications. (06 Marks)
- b. Explain the safety precautions to be taken during welding. (07 Marks)
- c. Explain safety procedures followed during working with machine tools. (07 Marks)

OR

- 6 a. What are various mechanical hazards in industry? Explain. (10 Marks)
- b. What procedure is to be followed while disposing an empty compressed gas cylinder and water drum containers. (10 Marks)

Module-4

- 7 a. What is an Electric shock? Mention causes of electric accidents. (10 Marks)
- b. Discuss the process of achieving electrically safe work conditions. (10 Marks)

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.

OR

- 8 a. Discuss the effect of electric current on human body. (10 Marks)
b. Write a short notes on :
i) Safety precautions in electric plant
ii) Fuse, circuit breakers and overload relays. (10 Marks)

Module-5

- 9 a. List the inspection criteria check list for pinning in an LPG installations. (10 Marks)
b. What is labeling of chemicals? Mention their importance. (10 Marks)

OR

- 10 a. Discuss the safety precautions for a vehicular use of CNG. (10 Marks)
b. Discuss safety policy of the company and loss prevention and control and risk assessment. (10 Marks)
