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18ME753

Seventh Semester B.E. Degree Examination, Feb./Mar. 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. Write short notes on the following : i) Hazard ii) Safety device iii) MSDS
iv) OSHA v) Accidents. (10 Marks)
b. Distinguish between Unsafe Act and Unsafe condition with suitable example. (10 Marks)

OR

- 2 a. Write down the short case study about the Road Safety. (10 Marks)
b. Discuss different Safety Organization and their roles and objectives. (10 Marks)

Module-2

- 3 a. Briefly discuss the Fire triangle and explain the steps to be taken after the occurrence of fire. (10 Marks)
b. List the various types of Fire extinguisher and list the main objectives of Fire Safety. (10 Marks)

OR

- 4 a. Explain with neat sketch of Carbon dioxide Extinguisher. (10 Marks)
b. Describe Fire detection in a Thermal Power Plant. (10 Marks)

Module-3

- 5 a. Write short notes on the following : i) PPE ii) Machine Safety tools
iii) Safety for compressed gas cylinder iv) Safety for Welding. (12 Marks)
b. What are various Mechanical hazards in Industry? Explain. (08 Marks)

OR

- 6 a. Discuss briefly the Storage, Handling and Decontamination plan for a waste drum of a hazardous substance. (10 Marks)
b. What are the various safety tools required for Lathe and Grinding Operation? (10 Marks)

Module-4

- 7 a. Briefly discuss about types of Electric Shocks and explain the effect of current on Human body for different level of current. (10 Marks)
b. Explain Safety precaution taken against Electric shocks in Electrical plant. (10 Marks)

OR

- 8 a. Define Electric Shocks and explain briefly about Electrical Safety devices. (10 Marks)
b. Explain causes of Electrical Accidents and prevention of Electrical Accidents. (10 Marks)

Module-5

- 9 a. Explain steps in Risk Assessment and control measures in Chemical Safety. (10 Marks)
b. Explain Eye washers and Showers. (04 Marks)
c. Write briefly about Safety Thinking and Accident Investigation. (06 Marks)

OR

- 10 a. Explain the Safety Policy of the Company. (10 Marks)
b. Explain the Safety Precaution using CNG and LPG. (10 Marks)

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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.