

CBCS SCHEME

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15ME662

Sixth Semester B.E. Degree Examination, June/July 2018 Industrial Safety

Time: 3 hrs.

Max. Marks: 80

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 : Accident , Slip , Trip and Fall. (08 Marks)
b. Mention any six unsafe acts and unsafe conditions that lead to Industrial accidents.(08 Marks)

OR

- 2 a. Briefly discuss the safety climbing guidelines while using ladders. (08 Marks)
b. List and briefly discuss the eight steps for Safer Lockout / Tagout programs. (08 Marks)

Module-2

- 3 a. List the various types/classes of fire, their extinguishers and their working principles. (08 Marks)
b. List the main objectives of fire safety. (08 Marks)

OR

- 4 a. Briefly discuss the Fire triangle. (03 Marks)
b. Explain the steps to be taken after the occurrence of fire. (05 Marks)
c. Discuss the various types of fire detectors generally used in a power plant. (08 Marks)

Module-3

- 5 a. What are the safety precautions to be taken while storing a compressed gas cylinder? (08 Marks)
b. Discuss briefly the storage , handling and decontamination plan for a waste drum of a hazardous substance. (08 Marks)

OR

- 6 a. Explain the safety precautions to be taken during welding. (08 Marks)
b. What procedure is to be followed while disposing an empty hydrocarbon container? (08 Marks)

Module-4

- 7 a. What are Primary and Secondary electric shocks? Discuss the effect of electric current on human body. (08 Marks)
b. Discuss various safety precautions to be taken in small and residential building installations against electrical hazard. (08 Marks)

OR

- 8 a. Discuss the process of achieving electrically safe work conditions. (08 Marks)
b. Discuss various safety procedures and paper work to be enforced while commissioning, operation and maintenance of electrical installation in an electrical plant. (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

Module-5

- 9 a. List the inspection criteria check list for piping in an L.P.G installation. (08 Marks)
b. Discuss the safety precautions for vehicular use of CNG. (08 Marks)

OR

- 10 a. List the various questions to be asked during an accident investigation. (08 Marks)
b. Discuss the objectives for safety, health and environment protection of a company. (08 Marks)

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