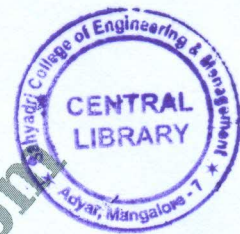


CBCS SCHEME



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15CV564

Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019 Occupational Health and Safety

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Outline the purpose of Occupational Safety and Health Act of India. (08 Marks)
b. Explain the history of Safety development. (08 Marks)

OR

- 2 a. Define i) Accident ii) Hazard iii) Risk. (03 Marks)
b. Write a short note on 3E's of safety. (03 Marks)
c. Explain the various methods of Accident Investigation. (10 Marks)

Module-2

- 3 a. Define 'Ergonomics'. Discuss the elements of OSHA's Ergonomic guidelines. (10 Marks)
b. Discuss the hazard preventions and control methods. (06 Marks)

OR

- 4 a. Define i) Human error analysis ii) Fault tree analysis. (08 Marks)
b. Write a brief note on Worksite analysis programme for Ergonomics. (08 Marks)

Module-3

- 5 a. Define Fire and discuss the classification of fire. (08 Marks)
b. Discuss the i) Effect of enclosure ii) Early detecting of fire. (08 Marks)

OR

- 6 a. List and explain the various methods of extinguishing fire. (08 Marks)
b. Discuss the management of electrical safety. (08 Marks)

Module-4

- 7 a. Discuss about the health problems at work place. (08 Marks)
b. Explain the necessary actions to be implemented at work place. (08 Marks)

OR

- 8 a. Explain the different types of personal protective equipment. (08 Marks)
b. Discuss the Environment Management plan for safety and sustainability. (08 Marks)

Module-5

- 9 a. Explain the preventive measures for safety in construction industry. (08 Marks)
b. Discuss the Safety and Health in wastewater treatment plants. (08 Marks)

OR

- 10 a. Discuss the roles and responsibilities of Managers in construction industry. (08 Marks)
b. Discuss the handling of chemicals in laboratories. (08 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.