

CBCS SCHEME

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18CV653

Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024 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. Define safety. Explain history and development of safety and precautions in different occupations. (10 Marks)
b. Explain laws governing Occupational Safety and Health Act (OSHA). (10 Marks)

OR

- 2 a. Define Accident. What are the causes of accidents in a Factory? (10 Marks)
b. Explain the steps in accidents investigations and how to analyzing the key facts in accidents. (10 Marks)

Module-2

- 3 a. Describe the OSHA's Ergonomic guidelines. (10 Marks)
b. Explain the Ergonomic Task Analysis with the phases of task analysis. (10 Marks)

OR

- 4 a. Describe the Ergonomic standards and Ergonomic programs. (10 Marks)
b. Define 'Hazard' and discuss the various Hazard cognition and their analysis. (10 Marks)

Module-3

- 5 a. Explain Fire Triangle. Describe fire development and its severing. (10 Marks)
b. What are the methods of early detection of fires? Explain briefly. (10 Marks)

OR

- 6 a. How fires are classified explain in brief. (06 Marks)
b. Explain different types of fire extinguishers. (06 Marks)
c. Describe the importance of electrical safety. (08 Marks)

Module-4

- 7 a. Describe the occupational diseases at work places and how they spread. (10 Marks)
b. What is P.P.E? Explain the types of PPE and its advantages. (10 Marks)

OR

- 8 a. Briefly discuss about the EMP for safety and sustainability. (10 Marks)
b. Mention the list of measures adopted to control the risk of occupational health. (10 Marks)

Module-5

- 9 a. Discuss the methods of handling of chemical and safety measures in water and waste water treatment plants. (10 Marks)
b. Explain the following hazards related to water treatment plants:
i) Accident hazards ii) Chemical hazards iii) Biological hazards
iv) Ergonomic, psychosocial and organizational factors. (10 Marks)

OR

- 10 a. Discuss the occupational health hazard posed in an cement manufacturing unit. (10 Marks)
b. Describe the roles and responsibilities of workers, managers and supervisors in safety programs in construction material manufacturing industries. (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.