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Sixth Semester B.E. Degree Examination, June/July 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. Outline the history and development of OSHA. (05 Marks)
- b. Write a brief note on National safety policy. (07 Marks)
- c. Explain the causes of accident in industry. (08 Marks)

OR

- 2 a. Explain the supervisory role in accident investigation. (10 Marks)
- b. Describe the laws governing OSHA and Right to know. (10 Marks)

Module-2

- 3 a. What is Ergonomics? Discuss the factors considered by Ergonomics to prevent hazard at work place. (10 Marks)
- b. Discuss the Fault tree Analysis method with some Examples. (10 Marks)

OR

- 4 a. Write a short notes on :
 - i) Work place envelops
 - ii) Visual Ergonomics
 - iii) Ergonomics Standards
 - iv) Ergonomics programmes. (10 Marks)
- b. Outline the process of emergency response plan and decision for action. (10 Marks)

Module-3

- 5 a. Define Fire and explain Fire Triangle and how Fire is classified. (10 Marks)
- b. What are Fire extinguishers? List out various Fire extinguish Techniques and explain Any two methods. (10 Marks)

OR

- 6 a. Define product Safety. Explain the technical Requirements of product safety. (10 Marks)
- b. Write short notes of the following :
 - i) Electrical Safety
 - ii) Early detection of Fire
 - iii) Fire development and its severity? (10 Marks)

Module-4

- 7 a. State and explain the various modes of transmission of diseases at work place. How preventive measure can be adopted. (10 Marks)
- b. What are PPE (Personal Protective Equipment) explain the use of PPE for health and safety considerations. (10 Marks)

OR

- 8 a. Discuss the effects of exposure to solid, liquid and Gaseous waste from industries. (10 Marks)
b. What is Environment Management Plan (EMP)? Explain the process of EMP for any given project. (10 Marks)

Module-5

- 9 a. Explain the health and safety consideration to be followed in water and waste water treatment plant. (10 Marks)
b. Discuss the handling of chemicals in the chemical industry and laboratory. (10 Marks)

OR

- 10 a. Explain the common hazards and occupational health concerns in a R.M.C plants and what are safety precautions. (10 Marks)
b. Identify common hazards and occupational health concerns in construction materials manufacturing industries like cement (10 Marks)
