



# CBGS SCHEME

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18CV653

## Sixth Semester B.E. Degree Examination, June/July 2023 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 significance of any Five sections of ISH Act, 1970. (10 Marks)  
b. Distinguish between any Five methods of Acquiring Accident Facts, with PRO's of CON's. (10 Marks)

OR

- 2 a. Highlight the need for Accident Investigation and list the various steps involved in it. (10 Marks)  
b. Outline the salient features of INDIA's National Policy on Safety, Health and Environment. (10 Marks)

### Module-2

- 3 a. Elucidate the significance of Job Hazard Analysis and explain its EIGHT STEPS with an example for any Random Job. (10 Marks)  
b. Elucidate the significance of Fault Tree Analysis, with an example and schematics. (10 Marks)

OR

- 4 a. Highlight the significance of Ergonomic Task Analysis in the context of OSHA, with any ONE example. (10 Marks)  
b. Design a Work Ergonomic Program. (10 Marks)

### Module-3

- 5 a. Distinguish between Product Safety and Electrical Safety. (10 Marks)  
b. Distinguish between the various classes of Fire, with salient features. (10 Marks)

OR

- 6 a. Highlight the need for "Early Detection Fire", with existing technologies (COMPONENTS) being cited and briefly discussed. (10 Marks)  
b. Distinguish between the various types of FIRE extinguisher, with relevant salient features. (10 Marks)

### Module-4

- 7 a. Highlight the need for PPE. Outline the various PPE with their salient features. (10 Marks)  
b. Highlight the relevance of OSH in the context of Transmission of Diseases, with examples of relevant work place. (10 Marks)

OR

- 8 a. List the various Occupational Health and Safety concerns in Municipal Solid Waste Management Plant. (10 Marks)  
b. List the various Occupational Health and Safety concerns in Engineering Industries. (10 Marks)

**Module-5**

- 9 a. Identify Common hazards and Occupational Health concerns in a RMC Manufacturing Unit. (10 Marks)
- b. Identify Common hazards and Occupational Health concerns in a Water and Wastewater Treatment Plant. (10 Marks)
- OR
- 10 a. Identify Common hazards and Occupational Health concerns in a Construction Site. (10 Marks)
- b. Identify Common Health hazards and Occupational concerns in a Chemical – based and Environmental Laboratories. (10 Marks)

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