

# 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)

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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 equating written eg. 42 + R = 50, will be treated as malpractice.

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## Fifth Semester B.E. Degree Examination, Dec.2017/Jan.2018 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. Define the following: i) Safety ii) Hazard iii) Accident iv) Risk. (08 Marks)  
 b. Write a note on :  
 i) Need for accident investigation ii) Methods of acquiring accident facts. (08 Marks)

OR

- 2 a. Comment on Light – to – Know laws. (08 Marks)  
 b. List the different steps to be considered in accident investigation process. (08 Marks)

### Module-2

- 3 a. What do you understand by ergonomics? Write a brief note on task analysis. (08 Marks)  
 b. Discuss the hazard prevention and control. (08 Marks)

OR

- 4 a. Define Ergonomics and comment on OSHA's Ergonomics guidelines. (08 Marks)  
 b. Write a brief note on Work site analysis programme for ergonomics. (08 Marks)

### Module-3

- 5 a. Define Fire hazard and discuss the sources of fire hazard. (08 Marks)  
 b. Write a brief note on Electrical Safety and Product Safety. (08 Marks)

OR

- 6 a. List and explain various methods of Extinguishing fire. (08 Marks)  
 b. Outline the general do's and don't's during electrical fire accident. (08 Marks)

### Module-4

- 7 a. Write a note on use of personal protective equipments for health and safety considerations. (08 Marks)  
 b. Discuss ISO : 14000 standard with its requirements. (08 Marks)

OR

- 8 a. Explain various types of respiratory protective devices. (08 Marks)  
 b. Write a brief note on Total Quality Management. (08 Marks)

### Module-5

- 9 a. Discuss briefly the various Safety Consideration in the construction Industry. (08 Marks)  
 b. Write a brief note on Health problems in handling of chemicals in Water and waste water treatment plants. (08 Marks)

OR

- 10 a. Write a brief note on Hazard prevention and control in RMC plants. (08 Marks)  
 b. Explain various health and safety consideration to be adopted in Managing Municipal Solid Waste. (08 Marks)

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