

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

September / October 2023 Supplementary Examinations

Programme: B.E.

Branch: Institutional Elective

Course Code: 21CV8OEOSH

Course: Occupational Safety and Health Administration

Semester: VIII

Duration: 3 hrs.

Max Marks: 100

Instructions: 1. Answer Any FIVE Full Questions choosing ONE question from each Unit
2. Missing data may be assumed suitably.

UNIT - I

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|---|----|---|----|
| 1 | a) | Comment on the Right to know laws | 06 |
| | b) | Illustrate the milestones in safety program. | 06 |
| | c) | Discuss about Occupational safety and health administration | 08 |

UNIT - II

- | | | | |
|---|----|---|----|
| 2 | a) | Explain the anatomy of an accident | 06 |
| | b) | Write a note on: i) need for accident investigation
ii) methods of acquiring accident facts. | 06 |
| | c) | Discuss on the accident investigation and analysis. | 08 |

UNIT - III

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|---|----|--|----|
| 3 | a) | Elaborate on the types of PPE used in industry. | 06 |
| | b) | Discuss on FTA. | 06 |
| | c) | Illustrate the phases of fire with a graphical representation bringing out the salient features. | 08 |

UNIT - IV

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|---|----|---|----|
| 4 | a) | With a neat flowchart, explain the steps in accident prevention. | 06 |
| | b) | Illustrate OSHA Ergonomic guidelines. | 06 |
| | c) | Discuss about human error model and Heinrich's Domino theory of accident causation. | 08 |

OR

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|---|----|---|----|
| 5 | a) | Elaborate on the various theories of accident analysis. | 06 |
| | b) | Summarize worksite analysis program for ergonomics. | 06 |
| | c) | What are the benefits of Ergonomic task analysis? | 08 |

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

UNIT - V

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|---|----|--|-----------|
| 6 | a) | Discuss the safety and hazard issues in pharmaceutical industry | 06 |
| | b) | Explain the preventive methods to avoid the musculoskeletal disorders. | 06 |
| | c) | Discuss on occupational health and toxicology. | 08 |

OR

- | | | | |
|---|----|--|-----------|
| 7 | a) | Explain the cause and the symptoms of Tennis elbow and Trigger finger. | 06 |
| | b) | Discuss the safety and hazard issues in construction industry. | 06 |
| | c) | Discuss on various health and safety considerations to be adopted in operation and maintenance of waste water treatment plant. | 08 |

SUPPLEMENTARY EXAMS 2023