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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

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	06
	ii) methods of acquiring accident facts.	
	c) Discuss on the accident investigation and analysis.	08

UNIT - III

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

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

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

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
