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

Autonomous Institute Affiliated to VTU

July 2023 Semester End Main Examinations

Programme: B.E.

Branch: Institutional Elective

Course Code: 21CV8OEOSH

Course: Occupational Safety and Health Administration

Semester: VIII

Duration: 3 hrs.

Max Marks: 100

Date: 06.07.2023

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

UNIT - I			CO	PO	Marks
1	a)	Explain the Right to know OSHA Laws	<i>CO1</i>	<i>PO1</i>	10
	b)	Define i) Disaster control ii) Job safety analysis iii) Safety survey iv) Safety inspection v) Safety sampling	<i>CO1</i>	<i>PO1</i>	10
UNIT - II					
2	a)	Define Accident? Explain the causes and some preventive measures regarding accidents in occupation.	<i>CO2</i>	<i>PO1</i>	10
	b)	Write a note on: (i) Need for accident investigation (ii) Methods of acquiring accident facts	<i>CO2</i>	<i>PO1</i>	10
UNIT - III					
3	a)	What are the sources of ignition? Explain the fire triangle with detail	<i>CO3</i>	<i>PO1</i>	06
	b)	Explain the types of Fires.	<i>CO3</i>	<i>PO1</i>	08
	c)	Explain fire development laying emphasis on duration and severity	<i>CO3</i>	<i>PO1</i>	06
UNIT - IV					
4	a)	Write a note on PHA and HAZOP	<i>CO3</i>	<i>PO1</i>	10
	b)	Define Ergonomics. Explain the measures taken to prevent ergonomic hazard	<i>CO3</i>	<i>PO1</i>	10
OR					
5	a)	Explain Fault tree analysis model with neat sketch	<i>CO3</i>	<i>PO1</i>	08
	b)	Elaborate on the Domino Theory of accident causation	<i>CO3</i>	<i>PO1</i>	08
	c)	Discuss on the musculoskeletal disorders in a workplace.	<i>CO3</i>	<i>PO1</i>	04

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 on occupational health and toxicology	<i>CO3</i>	<i>PO1</i>	10
	b)	Discuss on various health and safety considerations to be adopted in operation and maintainance of waste water treatment plant.	<i>CO3</i>	<i>PO1</i>	10
OR					
7	a)	Discuss briefly various health and safety considerations in a food process industry	<i>CO3</i>	<i>PO1</i>	10
	b)	Discuss briefly various health and safety considerations in a textile industry	<i>CO3</i>	<i>PO1</i>	10

B.M.S.C.E. - EVEN SEM 2022-23