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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.

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

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

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