


Name:			
Enrolment No:			
UPES End Semester Examination, December 2024			
Course: Occupational Health & Safety Program: M.Tech (Health, Safety and Environment) Course Code: HSFS7003		Semester: I Time : 03 hrs. Max. Marks: 100	
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Differentiate between acute and chronic effects in terms of exposure and reversibility.	4	CO1
Q 2	Explain how cognitive ergonomics differs from physical ergonomics.	4	CO2
Q 3	What are morbidity indicators, and how do they complement mortality indicators?	4	CO1
Q 4	Explain the significance of health services in achieving equitable healthcare distribution.	4	CO2
Q 5	Explain the connection between environmental modifications and health promotion.	4	CO2
SECTION B (4Qx10M= 40 Marks)			
Q 6	List the steps included in decontamination procedures for protection levels A to C.	10	CO3
Q 7	Compare the suitability of RULA and REBA for assessing ergonomic risks in office settings versus manufacturing environments.	10	CO3
Q 8	Critically assess the use of personal protective equipment (PPE) versus administrative controls in minimizing chronic chemical exposure in industries.	10	CO4
Q 9	Design a dust control mechanism for reducing airborne particulate matter in mining operations. OR Investigate the impact of inadequate lead safety measures on workers' health.	10	CO5
SECTION-C (2Qx20M=40 Marks)			
Q 10	A. Assess the long-term advantages of implementing a comprehensive ergonomic strategy in an organization. B. Compare the use of high-pressure water versus chemical cleaning solutions for heavy equipment.	20	CO4
Q 11	Critically assess the health risks of using chromium-based compounds in industrial applications versus their economic benefits. OR Evaluate the adequacy of current occupational exposure limits for nickel in preventing long-term health effects.	20	CO5