


Name:			
Enrolment No:			
<b>UPES</b> <b>End Semester Examination, May 2024</b>			
<b>Course: Occupational health and hygiene management</b> <b>Program: B.Tech-Fire and Safety Engineering</b> <b>Course Code: HSFS 3004</b> <b>Instructions: Read the question properly and give the most relevant answer.</b>		<b>Semester: VI</b> <b>Time : 03 hrs.</b> <b>Max. Marks: 100</b>	
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q 1	Differentiate the following with an example. a) Local effect and systemic effect b) Chronic and acute	4	CO4
Q 2	Differentiate Ionizing and Non-Ionizing radiation with examples	4	CO4
Q 3	Explain the significance of measuring Particulate Matter 2.5 micrometers (PM.2.5)	4	CO2
Q 4	Recall the term toxicology with an example of your choice.	4	CO1
Q 5	Differentiate fumes and mist in chemical hazards with example.	4	CO4
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q 6	Discuss Ultraviolet radiation in details with its hazards and control measures.	10	CO1
Q 7	Examine Silicosis and phenomena of causation elaborately.	10	CO2
Q 8	Analyze the Lead metal as an occupational safety expert.	10	CO3
Q 9	There is a huge exposure of CO and CO <sub>2</sub> gases in your industry using Hydro carbon as a fuel, can you explain to your management the health effects and control measures of the above gases. (OR) Explain Minamata disaster in detail	10	CO1
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
Q 10	Explain the importance of preventing Noise hazards in workplace and prepare a noise control strategy for industry of your choice. (OR) Prepare a personal hygiene plan for the workers in sewage treatment plant and for workers in cement industry.	20	CO4
Q 11	Explain any 3 ionizing radiations, its property, monitoring techniques and control measures in detail and prepare a safe work procedure for operating radiation source in your industry (choose the industry other than nuclear powerplant)	20	CO3