


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2022			
Course: Safety in Engineering Industry Program: B.Tech- Fire and Safety Engineering Course Code: HSFS4004 Instructions: Read the Question properly and write the most relevant Answer.		Semester: VI Time : 03 hrs. Max. Marks: 100	
SECTION A (5x4=20 Marks)			
S. No.		Marks	CO
Q1	List any 10 occupational diseases caused by physical and chemical agents in engineering industry (5 each)	4	CO1
Q2	Explain the principles of Guarding	4	CO2
Q3	Write about forming process with examples	4	CO3
Q4	Define Zero Mechanical State with examples	4	CO1
Q5	Explain the hazards in Effluent treatment plant	4	CO2
SECTION B (4 x10= 40 Marks)			
Q6	Recall the Principles of Material handling with possible examples	10	CO1
Q7	Classify Engineering sector with suitable example	10	CO1
Q8	Write the any 5 guarding devices with their possible applications	10	CO3
Q9	Analyze the lathe machine and list possible hazards /Hazardous scenario and their control measure (OR) Analyze the Milling Machine and list possible hazards/Hazardous scenario and their control measure	10	CO3
SECTION-C (2x20=40 Marks)			
Q10	Gases and fumes are inevitable sources and products in welding operation, list out the fumes and gases, their potential sources, effects and control measures. (OR) Explain the various activities of foundry, its potential hazards and control measures with examples wherever possible.	20	CO4
Q11	Explain the hazards and control measures for the following machines a) Power Press b) Rolling machine	20	CO2