


Name:			
Enrolment No:			
UPES End Semester Examination, May 2024			
Course: Behaviour Based Safety and Human factors Engineering Program: B.Tech.-Fire and Safety Engineering Course Code: HSFS 2009 Instructions: Read the question properly and give the most relevant answer.		Semester: IV Time : 03 hrs. Max. Marks: 100	
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Recall the concepts: Lost time injury, accident and near miss	4	CO1
Q 2	Discuss the hierarchy of control in safety engineering.	4	CO2
Q 3	Differentiate Traditional safety and behavior-based safety.	4	CO4
Q 4	Explain the different cost of accident.	4	CO3
Q 5	Explain safety sampling and safety inspection	4	CO3
SECTION B (4Qx10M= 40 Marks)			
Q 6	Write about PDCA cycle in detail.	10	CO3
Q 7	Explain Job safety analysis in detail with an example of your choice	10	CO2
Q 8	List the duties of safety officer as per legal regulation.	10	CO1
Q 9	Explain ABC analysis with an example of your choice. (or) Do you think leadership is important for safety profession. Justify your stand with example of your choice.	10	CO3
SECTION-C (2Qx20M=40 Marks)			
Q 10	Prepare a writeup of OSHA's PSM elements with example	20	CO4
Q 11	Explain the concept of accident investigation in detail. Investigate an accident/incident you have gone through using 5W1H technique. (OR) As a safety engineer you have to promote safety in your organization by conducting events, prepare a plan to conduct safety week celebration in your organization.	20	CO2 & CO3