

Name:			
Enrolment No:			
UPES End Semester Examination, May 2023			
Course: BBS 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	Define Safety and Security with an example.	4	CO1
Q 2	Discuss the hierarchy of control in safety engineering.	4	CO2
Q 3	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 tour.	4	CO3
SECTION B (4Qx10M= 40 Marks)			
Q 6	Write about PDCA cycle in detail.	10	CO3
Q 7	Describe 5S technique and its importance in safety perspective.	10	CO2
Q 8	List the duties of safety officer as per legal regulation.	10	CO1
Q 9	Explain the concept of Man-machine-system. (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	You are planning to use ABC model in your organization prepare a report explaining the concepts of ABC model with example to be submitted to your higher management.	20	CO4
Q 11	As a safety officer explain to your management the importance of ergonomics, its elaborate ill effects, good practices and control measures to convince them to allocate proper budget. (OR) Consider if there is any accident happens in your work premises how will you react and whom do you inform (for fatal and major injury) as per regulation and now you have to investigate the accident, explain the importance of accident investigation and the methodology you will follow to investigate the accident.	20	CO2 & CO3