Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2023

Course: HSE in Petroleum Industry

Semester: VI

Program: B.Tech(Applied Petroleum Engineering with Gas specialization)

Time : 03 hrs.

Course Code: HSFS3034P

Max. Marks: 100

Instructions:

SECTION A (5Qx4M=20Marks)

S. No.		Marks	СО
Q 1	Discuss in brief the Pasadena Texas disaster.	4	CO1
Q2	Elucidate in brief Bhopal gas tragedy disaster.	4	CO2
Q3	Define and describe EPA Environmental Management Plan.	4	CO3
Q4	Define and elucidate Security Vulnerability Analysis.	4	CO5
Q5	What do you mean by AICHE Code of Ethics.	4	CO1
	SECTION B		I
	(4Qx10M = 40 Marks)		
Q 6	Discuss different aspects of control procedures in industrial hygiene.	10	CO3
Q7	Discuss and describe toxic release and dispersion models.	10	CO4
Q8	Write and explain in details different parameters affecting toxic release and dispersion models.	10	CO3
Q9	Describe and discuss different source models OR Discuss in details flow of liquid through a hole in a tank in source model.	10	CO5
	SECTION-C		
	(2Qx20M=40 Marks)		
Q10	Discuss in details the different concepts of fire and explosions as regards chemical process safety. OR Elucidate in details Failure Mode and Effect Analysis.	20	CO6

Q11	Discuss in details HAZAN and HAZOP techniques.	20	CO5	
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