


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, May 2023</b>			
<b>Course: Chemical Process and Plant Safety</b> <b>Program: B. Tech. (CE+RP)</b> <b>Course Code: CHCE3015P</b> <b>Instructions : Attempt all the questions</b>		<b>Semester: VI</b> <b>Time: 3 hours.</b> <b>Max. Marks: 100</b>	
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q 1	Discuss in brief the Pasadena USA disaster and its consequences	4	CO1
Q2	Define dose- response models.	4	CO2
Q3	Explain control techniques in industrial hygiene.	4	CO3
Q4	Elucidate on Security Vulnerability Analysis.	4	CO5
Q5	Define Layer of Protection analysis..	4	CO6
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q 6	Discuss different aspects of source models in brief.	10	CO3
Q7	Discuss how toxicants are eliminated in biological organisms.	10	CO2
Q8	Explain the concept of preliminary hazard analysis?	10	CO4
Q9	Describe and discuss different toxic release and dispersion models OR Write in details 2-K method in source models.	10	CO5
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
Q10	Discuss fires and explosion concept in chemical process safety. OR Describe in details what-if analysis.	20	CO6
Q11	Elucidate in details Material Safety Data Sheets and also dose response models.	20	CO4