


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, December 2022</b>			
<b>Course: Chemical Process and Plant Safety</b> <b>Semester: V</b> <b>Program: B.Tech( Chemical Engineering)</b> <b>Time : 03 hrs.</b> <b>Course Code: CHCE3015P</b> <b>Max. Marks: 100</b>			
<b>Instructions: Question contains 2 pages.</b>			
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		<b>Marks</b>	<b>CO</b>
Q 1	Discuss in brief the Bhopal Gas Tragedy.	<b>4</b>	<b>CO1</b>
Q2	What do you mean by Risk Assessment?	<b>4</b>	<b>CO2</b>
Q3	Describe the meaning of Risk Management Plan with respect to Bhopal Gas Tragedy.	<b>4</b>	<b>CO3</b>
Q4	Define autoignition concept as regards fire and explosion domain.	<b>4</b>	<b>CO5</b>
Q5	Define and discuss what-if analysis.	<b>4</b>	<b>CO4</b>
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q 6	Discuss different environmental disasters.	<b>10</b>	<b>CO1</b>
Q7	Discuss and describe the meaning of toxicology.	<b>10</b>	<b>CO2</b>
Q8	Discuss in details the evaluation procedure of industrial hygiene.	<b>10</b>	<b>CO3</b>
Q9	Describe and discuss different fire extinguishing procedures. OR Discuss relief systems.	<b>10</b>	<b>CO6</b>
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
Q10	Discuss dispersion models to assess the impact of industrial release to the surroundings. OR Describe in details process safety management and process hazard analysis..	<b>20</b>	<b>CO5</b>

Q11	Discuss in details consequence analysis.	20	CO4
-----	--	----	-----