

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Online End Semester Examination, December , 2020

Course: Chemical Process and Plant Safety

Semester: V

Program: B.Tech(Chemical Engineering with spl. in Refining and Petrochemicals)

Time: 3 hours.

Course Code: CHCE3015P

Max. Marks: 100

Instructions:

SECTION-A

1.Each question will carry 5 marks.

2. Instruction : Complete the statement/Select the correct answer.

Answer all the questions (Section-A)

S. No.		Marks	CO
Q 1	A) Select the correct answer: Initiation is the event which a) Starts the accident. b) That maintains the accident c) That expands the accident. d) That diminishes the accident.(2) B) Define TLV.(3)	5	CO3
Q 2	A)Inherent safety means: a) Minimize the accident. b) Substitute the accident. c) Moderate the accident. d) All of the above(2) B) What do you mean by OSHA?(3)	5	CO4
Q 3	A. Toxicants are eliminated from biological organisms by a) Excretion	5	CO3

	b) Detoxification c) Storage d) All of the above.(2) B. What do you mean by risk assessment?(3)		
Q 4	A. The way toxicants enter biological organisms are in the a) Science of toxicology b) Science of industrial hygiene. c) Science of process safety management d) Science of risk assessment.(2) B. What do you mean by dermal absorption?(3)	5	CO2
Q 5	A. The Seveso, Italy industrial disaster occurred in a)1976 b) 1980 c) 1987 d)1984(2) B. What is the function of respiratory system?(3)	5	CO1
Q6	Material Safety Data Sheets are available from a) The chemical manufacturer. b) A commercial source. c) A private library. d) All of the above.	5	CO3
	Section B: 1. Each question will carry 10 marks. 2. Instruction: Write short/brief notes.		
Q7	Discuss in details American Institute of Chemical Engineers Code of Ethics.	10	CO1
Q8	Describe and discuss risk analysis.	10	CO1
Q9	Elucidate on the science of industrial hygiene.	10	CO2
Q10	Discuss in details EPA Risk Management Plan.	10	CO3
Q11	Discuss process safety management.	10	CO2
	Section C: Each question carries 20 marks. Instruction- Write long answer.		
Q12	What do you mean by toxicological studies? Discuss in details.(20) OR Discuss dose versus response curves?(20)	20	CO2

