

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2020

Programme Name: M.Tech HSE

Semester : III

Course Name : Hazard and Safety Measures in Process Industry

Time : 03 hrs

Course Code : HSFS 8004

Max. Marks: 100

Instructions :

- All questions are compulsory.
- Write the answers on an A4 sheet with your name and roll number mentioned on each page. Pl scan properly so as the answers are clearly visible.
- Plan your Work - Time schedule smartly and upload answers well within time.
- Please answer precisely and to the point.

SECTION A

(6 x 5 marks = 30 marks)

S. No.		Marks	CO
1	How to treat a person affected by H2S?	5	CO1
2	List out any five Confined Space Hazards?	5	CO3
3	What important details a work permits gives?	5	CO2
4	Importance of safety review of documents and drawings?	5	CO2
5	What is Process Industry 4.0?	5	CO1
6	Briefly explain contractors and their role in process safety?	5	CO2

SECTION B

(50 marks)

Q 7	What procedure you will follow as safety officer during bulk unloading from tanker to tank?	10	CO6
Q 8	<i>“Multiple injuries and fatalities occur during confined space entry work more than any other type of work performed in all developed countries.”</i> Explain your point of views on above research outcome based statement.	10	CO3
Q 9	Write general leading and lagging indicators which would be applicable to process industries.	10	CO2
Q10	Being owner of an organization, how conducting inspections can benefit the society?	10	CO4
Q11	How the knowledge gained in this subject will be beneficial in your personal & professional career growth?	10	CO1

SECTION-C

(20 marks)

Q7	Chose any one topic from the following : ➤ Gas Leak Baghjan oilfield, Tinsukia Assam dated 27 th May 2020. OR ➤ Hazards and safety measures in bulk storage of flammable materials.	20	CO5
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OR

➤ Hazards and safety measures in pipeline transferring hydrocarbon.

Write your answer in the following steps –

- a. Introduction (5 marks)
- b. Lesson learned from accident (5 marks)
- c. Possible impact on environment (5 marks)
- d. Safety can distinguish you , lack of safety can extinguish you (5 marks)