

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: M.Tech (HSE)

Subject (Course): Hazards and Safety Measures in Process Industry

Course Code : MEEG 421

No. of page/s:01

Semester – 3rd

Max. Marks : 100

Duration : 3 Hrs

SECTION: A – ATTEMPT ALL QUESTIONS

(20 Marks)

Q1. Explain the following briefly

(4 * 5 = 20)

- a) PRCSE
- b) Hot work Permit
- c) Confined space
- d) Sick Wagon

SECTION: B – ATTEMPT ALL QUESTIONS

(4 * 10 = 40 Marks)

Q2. What do you mean by “Aquifers”? Explain the types of tanks used for storage of petroleum Products. What are the types of roofs used in storage tanks and condition on which it depends?

Q3. Discuss in detail advantages and disadvantages of transportation of hydrocarbon products with reference to HSE issues.

Q4. What are fire, health & safety considerations at vacuum distillate tower & fluid catalytic cracking in refinery operations?

Q5. What are the Fire, Health & Safety consideration to be taken in a drilling industry?

SECTION: C – ATTEMPT ALL QUESTIONS

(2 * 20 = 40 Marks)

Q6. Explain the importance of Plant Inspection with reference to oil & Gas industry. Construct a inspection checklist for 33kv Substation in an Oil & Gas industry?

Q7. Explain the different types of work permits in details as per OISD 105. And give one example of each activity?



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Name of the College (Please tick, symbol is given)	:	COE S	<input type="checkbox"/>	CMES		COLS	
Program	:	M.Tech (HSE)					
Semester	:	3rd Semester					
Name of the Subject (Course)	:	Hazard & Safety measures in Process Industries					
Course Code	:	MEEG 831					
Name of Question Paper Setter	:	Akshi Kunwar Singh					
Employee Code	:	40001589					
Mobile & Extension	:	7259672220					
Note: Please mention additional Stationery to be provided, during examination such as Table/Graph Sheet etc. else mention “NOT APPLICABLE”:							
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Date of Examination	:						
Time of Examination	:						
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Note: - Pl. start your question paper from next page

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SECTION: A – ATTEMPT ALL QUESTIONS

(20 Marks)

Q1. Explain the following briefly

(4 *5=20)

- a) Corrosion allowance
- b) Hot work Permit
- c) HIRA
- d) Sick Wagon

SECTION: B – ATTEMPT ALL QUESTIONS

(4 * 10 = 40 Marks)

Q2. Discuss in detail advantages and disadvantages of transportation of hydrocarbon products with reference to HSE issues.

Q3. What are fire, health & safety considerations at vacuum distillate tower & fluid catalytic cracking in refinery operations?

Q4. What are the Fire, Health & Safety consideration to be taken in a drilling industry?

Q5. What do you mean by“Aquifers”?Explain the types of tanks used for storage of petroleum Products. What are the types of roofs used in storage tanks and condition on which it depends?

SECTION: C – ATTEMPT ALL QUESTIONS

(2 * 20 = 40 Marks)

Q6. Explain the importance of Plant Inspection with reference to oil & Gas industry. Construct a inspection checklist for 33kv Substation in an Oil & Gas industry?

Q7. Explain the different types of work permits in details as per OISD 105. And give one example of each activity?