


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, December 2022</b>			
<b>Course: Introduction to Oil &amp; Gas Operations</b> <b>Program: B.Tech APE(Gas)</b> <b>Course Code: CHGS 2001</b>		<b>Semester : III</b> <b>Time : 03 hrs.</b> <b>Max. Marks: 100</b>	
<b>Instructions: Assume suitable and necessary data if required and Justify</b>			
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q 1	Classify Sedimentary Environment	4	CO1
Q 2	Outline the common forms of well completions?	4	CO2
Q 3	Write the objectives of surface petroleum operations	4	CO3
Q 4	List out the advantages of Pipeline Transportation?	4	CO3
Q 5	Why Sulfur is objectionable?	4	CO4
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q 6	Identify various theories recognized in the formation of crude oil	10	CO1
Q 7	Analyze primary and secondary cementing techniques.	10	CO2
Q 8	Examine the system of unloading crude oil with Single Buoy Mooring system with neat sketch	10	CO3
Q 9	Explain a method to reduce carbon dioxide foot print. OR Explain the effects of increased carbon foot print.	10	CO4
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
Q 10	Describe with neat sketch the working of horizontal three phase separator and also analyze various factors affecting the separation. OR Describe with neat sketch the working of vertical three phase separator and also analyze various factors affecting the separation	20	CO3

Q 11	Assess the following:  a. Impact of gas flaring on environment. b. Effects of oil spills on aquatic life c. Produced water impact on environment d. Benefits of Safety audits.	<b>20</b>	<b>CO4</b>
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