


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, May 2022</b>			
<b>Course: OIL FIELD ASSET MANAGEMENT</b>			
<b>Semester: VIII</b>			
<b>Program: B.Tech APE-UP</b>		<b>Time : 03 hrs.</b>	
<b>Course Code: CHCE 4004P</b>		<b>Max. Marks : 100</b>	
<b>Instructions: All questions are compulsory.</b>			
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S.No		Marks	CO
Q 1	Explain how an Asset Management Plan helps in optimization of an oil & gas asset	4	CO1
Q 2	Discuss Categories of Risk	4	CO2
Q 3	Evaluate Portfolio Management in an Upstream Oil and Gas Organization	4	CO3
Q 4	Describe SCADA System in Upstream activities Discuss	4	CO3
Q 5	Describe decommissioning and its obligations	4	CO4
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q 6	Define Expected Monetary Value (EMV). Calculate EMV from decision tree with the following assumptions for two projects: Project 1: The outcome from project 1 is 300,000 if it is successful, otherwise loss of \$40000. The probability of success is 0.2 for project 1. Project 2: The p (success) are 0.2, 0.1, 0.7 for project 2, and the outcomes are 50,000, -10000, 150,000, -20000, 60000 and -12,000 respectively. Find out which project is economically viable? (All outcomes in \$)	10	CO1
Q 7	Explain Database Management. Describe the role of Information Technology in Database Management	10	CO2

Q 8	<p>Explain any two from followings:</p> <p>a) Concept of Accounting in Oil &amp; Gas Industry <b>(4M)</b></p> <p>b) Operating Expense model <b>(3M)</b></p> <p>c) The '6V' of Big Data <b>(3M)</b></p> <p style="text-align: center;"><b>OR</b></p> <p>Describe the key areas within upstream Oil &amp; Gas activities that will benefit from an accelerated digital transformation?</p>	<b>10</b>	<b>CO3</b>
Q 9	<p>Explain following:</p> <p>(a) Elements of Fiscal Systems <b>(4Marks)</b></p> <p>(b) Types pf Petroleum Licensing system <b>(3Marks)</b></p> <p>(c) Characteristics of a Joint Venture <b>(3Marks)</b></p>	<b>10</b>	<b>CO4</b>
<p><b>SECTION-C</b></p> <p><b>(2Qx20M=40 Marks)</b></p>			
Q 10	<p>a) How the crude oil price volatility impact economy of India <b>(10M)</b></p> <p>b) How the price of petrol and diesel is calculated in India <b>(10M)</b></p> <p style="text-align: center;"><b>OR</b></p> <p>Describe the fundamental Well costing in Upstream Petroleum Industry</p>	<p><b>(10+10)</b></p> <p><b>20</b></p>	<b>CO3</b>
Q 11	<p>a) Explain difference between NELP and OALP? Write salient features of OALP <b>(10M)</b></p> <p>b) Define Inventory Control. Describe EOQ model of Inventory Control <b>(10M)</b></p>	<p><b>(10+10)</b></p> <p><b>20</b></p>	<b>CO4</b>