Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2023

Course:MBA OGProgram:Understanding Natural Gas BusinessTime:03 hrs.Course Code:OGOG 7011

Semester: II

Max. Marks:100

Instructions:

10Qx2M=20Marks Fill in the blanks: 1. 1.0 tonne of LNG is vaporized and expands to	Marks	СО
1 1.0 tenno of LNG is venerized and expands to M2 of gas at		
atmospheric conditions.	2	CO1
Define the term Gas Oil Ratio (GOR)	2	CO1
In the state of Texas, the statutory definition of a gas well is one where the GOR is greater than	2	CO1
What are the non-hydrocarbon contents in natural gas feed?	2	CO1
Name the three gas fields in India and in which basins they are located?	2	CO1
Define the terms <i>Cricondentherm</i> and <i>Cricondenba</i> r as shown on the PVT diagram	2	CO1
How mercury is removed from Natural Gas feed?	2	CO1
Free gas and total gas content of Indian shales arecompared to North American Shales.	2	CO1
Where is Atlantic Pacific LNG located and who owns this LNG project?	2	CO1
What are the upstream gross margins of conventional natural gas vis-a-vas CBM?	2	CO1
SECTION B		
4Qx5M= 20 Marks		
Describe the "Retrograde-Condensate-Gas Phase Behavior"	5	CO2
In what ways the CBM projects are different from other natural gas projects	5	CO2
Describe the Sabine pipeline LLC and its affiliates	5	CO2
What are <i>Gas Hydrates</i> and describe <i>gas hydrate stability zone</i>	5	CO2
	2. Gas conversion factor from standard M ³ to SCF is Define the term <i>Gas Oil Ratio (GOR)</i> In the state of Texas, the statutory definition of a gas well is one where the GOR is greater than	2. Gas conversion factor from standard M³ to SCF is 2 Define the term Gas Oil Ratio (GOR) 2 In the state of Texas, the statutory definition of a gas well is one where the GOR is greater than

	SECTION-C 3Qx10M=30 Marks		
Q 1	What are the physical and logistical attributes of a natural gas hub?. Describe the three major gas hubs and the factors for their becoming pricing benchmark for natural gas trade.	10	CO3
Q 2	Describe the <i>Syngas market</i> . What are the major steps in GTL (gas to Liquid) process and the range of products obtained from Syngas?	10	CO3
Q 3	Describe the APM and non-APM gas pricing structures. What are the main recommendations of <i>Rangarajan committee</i> on domestic gas pricing?	10	CO3
	SECTION-D 2Qx15M= 30 Marks		
Q 1	Describe the case dispute between <i>IGL versus PNGRB</i> on the issue of CGD license for Ghaziabad GA. Explain the supreme court ruling in this case and the Significance of section 16 of PNGRB act.	15	CO4
Q 2	 Attempt any one of the two: a. Reference to HBR case study "Gas Natural BAN's strategy for low income sectors", describe the followings, Case introduction and background What elements in gas for everyone may be construed as part of a LIS-oriented strategy? What major challenges the company face throughout this process? a. Analyze Project Structure, Cost, and Financing of LNG projects. Compare the project cost components for two LNG projects: Algeria II and Pac Indonesia" 	15	CO4