



Name:
Enrolment No:

UNIVERSITY OF PETROLEUM & ENERGY STUDIES
End Semester Examination – Dec 2023

Program: MBA Oil & GAS
Course: Oil & Gas Storage and Transportation
Course Code: OGOG 8007

Semester: III
Max. Marks: 100
Duration : 3 Hours

SECTION- A
Each Question will carry 2 Marks

S.No.	Question	
Q.1	Fill in the blanks. Reforming' is a chemical process, which converts..... Into and..... (having high Octane number).	CO1
Q.2	Describe Batch Injection and Stripping operations in multi product pipelines.	CO1
Q.3	Define a Stock Tank Oil Initially In place (STOIP).	CO1
Q.4	Name at least two LNG projects expected to come on-stream in North America in 2024.	CO1
Q.5	From 2022 and 2023 data, what is the total size (\$US) of midstream oil & gas market? Why does North America lead in midstream petroleum business	CO1
Q.6	Define M.T.B.E / T.A.M.E	CO1
Q.7	"Petroleum Class C" means petroleum having flash point of and above but below..... degrees centigrade.	CO1
Q.8	What is DWT of the following crude carriers? 1. Large Range I (LR I)/Panamax 2. Aframax	CO1
Q.9	Define the minimum parcel size (batch length) for a product .	CO1
Q.10	Why Caspian sea is called sea and which countries are sharing " <i>Caspian sea petroleum resources</i> "?	CO1

SECTION- B

Each Question will carry 5 Marks

Q.1	Transportation of petroleum products by road is not the most economic mode. Why does the oil industry use this mode?	CO2
Q.2	Describe the functions and the components of a Group Gathering Station.	CO2

Q.3	Describe the storage and handling issues with NGL/Condensate transportation	CO2
Q.4	In product tankers describe the issues relating to inter mixing of following petroleum products; a. Motor gasoline mixed with Naptha a. ATF mixed with MS/Naphtha	CO2

SECTION- C

Each Question will carry 10 Marks

Q.1	Describe the core components of a FPSO Vessel and SPM system. How is India's oil and gas industry deploying FPSOs in deep water discoveries?	CO3
Q.2	Describe STARDOM and FAST/TOOLS Integrated SCADA Solution for Indian Oil Corporation's Multiproduct CBPL Pipeline	CO3
Q.3	Describe <i>Syncrude</i> and the challenges faced in production and transportation of Heavy Oil/Tar sands. What are the remedial technologies in use?	CO3

SECTION- D

Each Question will carry 15 Marks

Q.1	<p>1. Describe “Cryogenic Cargo Tank – MC-338” and its specifications for petroleum products.</p> <p>2. Describe <i>The Petroleum Act, 1934</i>, and how it defers with respect to <i>The Petroleum Act, 1899</i>.</p> <p>3. Describe World Scale (WS) and ATRS with respect to Tanker freight, what does WS200 and WS80 signify?</p>	CO4
Q.2	<p>Attempt any one of the followings A or B</p> <p>A. Refer to the GCC (Gulf Cooperation Council) case study “Economic Analysis of Gas Pipeline Trade Cooperation”. From the case study, summarize the followings:</p> <p>1. How Natural gas pipeline infrastructure can foster and sustain regional energy trade and cooperation, providing both economic benefits and regional energy security?</p> <p>2. Accordingly, how this study may offer a foundation to regional policymakers for assessing how GCC countries can leverage regional</p>	CO4

natural gas coordination for long-term viability while facing an uncertain global energy transition.

OR

B. In petroleum supply chain, describe in details the various commonly used **charter party** between “**the charterer**” and other party ‘**the owner**’.