



Name:
Enrolment No:

UNIVERSITY OF PETROLEUM & ENERGY STUDIES
End Semester Examination – Dec- 2022

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	What are the densities of the following petroleum products? a. Ethanol b. SKO	CO1
Q.2	Write the full form of, 1. FSRU 2. CTS 3. MGO 4. MTBE.....	CO1
Q.3	Which country the followings Oil & Gas companies(NOCs) belong to; 1. PEMEX 2. ENI 3. OMV 4. GNPC	CO1
Q.4	Petronet is a joint venture (JV) company of.....	CO1
Q.5	Write the chemical formula of Paraxylene and its industrial application	CO1
Q.6	What is the Sulphur content in ppm of the following SKO grades? a. PCK b. Low sulpher SKO	CO1
Q.7	Class' B' petroleum products have flash point above _____ degrees C.	CO1
Q.8	What is DWT of the following crude carriers? 1. VLCC 2. SuperMax	CO1
Q.9	The maximum cost in operating a petroleum pipeline is associated with.....	CO1
Q.10	The commodity which accounts for the maximum volume transported by Railways in India is;	CO1

	<ul style="list-style-type: none"> a. Iron and steel b. Coal c. Mineral oil d. Metallic ore (Other than iron) 	
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SECTION- B

Each Question will carry 5 Marks

Q.1	Describe the various oil & Gas production facilities at a typical oil field.	CO2
Q.2	Describe the followings petroleum storage concepts; <ul style="list-style-type: none"> 1. FSO 2. FSU 3. FDPSO 4. FLNG 5. CTF 	CO2
Q.3	Describe the reason for the restricted use of Tetra Ethyl lead (TEL). Explain and use of ‘ <i>Reforming</i> ’ with resultant product <i>Reformate</i> .	CO2
Q.4	In product tankers describe the issues relating to inter mixing of following petroleum products; <ul style="list-style-type: none"> 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 difference between <i>Lease condensate</i> and <i>Plant condensate</i> . Draw the schematic flow diagram of the separation of condensate from raw natural gas.	CO3
Q.2	Road transportation covers last mile journey to the end user. Describe various aspects of oil movement by road through tank trucks (TT) covering loading/unloading, safety precautions, contracts, bridging, major issues faced by oil companies etc.	CO3

Q.3	<p>Attempt any one of the two;</p> <p>a. Describe the Single Point Mooring (SPM) operations, its main components and name the Indian ports equipped with SPM transfer system.</p> <p>b. Describe product pipelines and their advantages, types of pipelines, pumping sequence for products, interface handling and challenges faced by oil companies in multiproduct pipelines.</p>	CO3
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SECTION- D

Each Question will carry 15 Marks

Q.1	<p>1. Describe the growth of the Indian ports for marine transportation and the govt. policy support to Indian shipping industry.</p> <p>2. Describe CABOTAGE Law and its objectives.</p> <p>3. Describe World Scale (WS) and ATRS with respect to Tanker freight, what does WS200 and WS80 mean?</p>	CO4
Q.2	<p>Attempt any one of the followings:</p> <p>a. Analyze the concerns about ‘<i>Canadian Dilbit</i>’ and ‘<i>Bakken crude</i>’. What are the safety requirements issued by PHMSA under the initiative ‘<i>operation classification</i>’ of 2014 for Bakken crude?</p> <p>b. Describe the Keystone XL pipeline and its southward extension to flow midcontinent oil. Compare the cost of railroad versus pipeline transportation of petroleum.</p>	CO4