

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2018

Course: Understanding Oil & Gas Business

Semester: I

Programme: BBA OG

CC: OGOG 8001

Time: 03 hrs.

Max. Marks: 100

Instructions:

SECTION A

S. No.	Tick the correct answer	Marks	CO
Q 1	LPG is made of : a. Propane and butane b. Ethane and propane c. Ethane and butane d. Ethane, propane and butane	1	1
Q2	FPSO is preferred for use in: a. Onshore b. Marshy Islands c. Shallow water d. Deepwater	1	2
Q3	Which of the following is used as feedstock to make petrochemicals: a Naphtha b Kerosene c LPG d Ethane	1	2
Q4	Naphthenes are a. Hydrocarbons b. Straight chain hydrocarbons c. Non-hydrocarbons d. Hydrocarbons with cyclic structure	1	1
Q5	Which of these are not petrochemical products? a. Polythene b. Synthetic Rubber c. Diesel d. Ethane	1	2
Q6	The major oil producing companies in India is: a. Reliance b. ONGC c. BPCL d. IOCL	1	4
Q7	Total oil production in India in terms of Million Tons per year is between:	1	4

	a. 10-25 b. 20-25 c. 25-35 d. 35-40		
Q8	The highest refining capacity in India is with: a. MRPL b. IOCL c. BPCL d. Reliance	1	4
Q9	The largest oil refinery in India is owned by: a. IOCL b. HPCL c. Essar d. Reliance	1	4
Q10	Cap rock has a. High Porosity b. High Permeability c. Low Porosity d. Low Permeability	1	1
Q11	MTOE means (a) Million Tons of Oil Export (b) Metric Tons of Oil Equivalent (c) Million Tons of Oil Equivalent (d) Million Tons of Oil Equity	1	1
Q12	Octane number of petrol used in cars in India is (a) Above 100 (b) Between 85 and 95 (c) Between 80 and 85 (d) Below 85	1	2
Q13	Sucker rod pumps are used for (a) Gas production (b) Oil production (c) Offshore fields (d) Low pressure wells	1	1
Q14	Jack up rig is used for (a) Onshore oil production (b) Offshore drilling (c) Offshore oil production (d) To jack up a platform	1	1
Q15	Drill bit in a rig is cooled by circulating (a) Water (b) Oil (c) Mud (d) Water & mud	1	1
Q16	What is ERP (a) Enterprise Resource Planning	1	3

	(b) Emergency Response Plan (c) Emergency Recognition and Prevention (d) Emergency Resource and Prevention		
Q17	HAZID (a) Hazard Identification (b) Hazard Industry (c) Hazard Inflammable (d) Hazard Instrument	1	3
Q18	UFL stands for (a) Upper Flammable Limit (b) Upper Flame Limit (c) Utmost Flammable Limit (d) Unit Flame Limit	1	3
Q19	VLCC stands for (a) Very Large Container Carrier (b) Very Large Crude Carrier (c) Very Low Crude Container (d) Very Low Crude Compartment	1	3
Q20	FPSO (a) Floating Production Storage and Offloading (b) Floating Petroleum Storage and Outsourcing (c) Floating Petroleum Store and Offloading (d) Floating Production Storage and Offshore	1	3
SECTION B			
Q 1	Explain water injection process and In-situ combustion process.	5	2
Q2	Describe the objectives of gas processing. Describe the various gas treatment or purification processes	5	2
Q3	Explain LNG Cycle. Describe with a schematic diagram.	5	1,2
Q4	Explain SCADA and pigging. Describe the various type of pigging operations.	5	1,2
SECTION-C			
Q 1	List the specifications for refinery products.	10	1,2
Q2	Explain the oil exploration process and the steps involved in it	10	1,2
Q3	Describe the different mode of oil and gas transportation. Write a brief note on each	10	2
SECTION-D			
Q1	Explain types of refinery processes.	15	2,3
Q2	Describe HAZOP. Explain its utility in oil and gas industry.	15	3

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SECTION A

S. No.	Tick the correct answer	Marks	CO
Q 1	The most of important component of natural gas is: a. Methane b. Ethane c. Propane d. Butane	2	1
Q2	What is API? a. American Petrol Institute b. American Petroleum Institute c. American Petroleum Institution d. America Petroleum Institute	2	2
Q3	Crude oil price during the current year has been in the range: a. US\$50-US\$60 b. US\$60-US\$70 c. US\$70-US\$80 d. US\$80-US\$90	2	4
Q4	India has _____ LNG terminals operating in India: a. 3 b. 4 c. 5 d. 6	2	4
Q5	Which of these are not petrochemical products? a. Polythene b. Synthetic Rubber c. Diesel d. Ethane	2	2
Q6	Total number of chemical components in Crude oil is a. 100 b. 250 c. 350 d. 500	2	4
Q7	Total oil production in India in terms of Million Tons per year is between: a. 10-25	2	4

	b. 20-25 c. 25-35 d. 35-40		
Q8	The highest refining capacity in India is with: a. MRPL b. IOCL c. BPCL d. Reliance	2	4
Q9	Identify the countries which are not members of OPEC: a. Russia b. Iran c. Iraq d. Angola	2	4
Q10	Cap rock has a. High Porosity b. High Permeability c. Low Porosity d. Low Permeability	2	1
Q11	UFL stands for (e) Upper Flammable Limit (f) Upper Flame Limit (g) Utmost Flammable Limit (h) Unit Flame Limit	1	3
Q12	VLCC stands for (e) Very Large Container Carrier (f) Very Large Crude Carrier (g) Very Low Crude Container (h) Very Low Crude Compartment	1	3
Q13	FPSO (e) Floating Production Storage and Offloading (f) Floating Petroleum Storage and Outsourcing (g) Floating Petroleum Store and Offloading (h) Floating Production Storage and Offshore	1	3
Q14	What is ERP (e) Enterprise Resource Planning (f) Emergency Response Plan (g) Emergency Recognition and Prevention (h) Emergency Resource and Prevention	1	3
Q15	HAZID (c) Hazard Identification (d) Hazard Industry (c) Hazard Inflammable (d) Hazard Instrument	1	3
Q16	Jack up rig is used for (e) Onshore oil production	1	1

	(f) Offshore drilling (g) Offshore oil production (h) To jack up a platform		
Q17	MTOE means (a) Million Tons of Oil Export (b) Metric Tons of Oil Equivalent (c) Million Tons of Oil Equivalent (d) Million Tons of Oil Equity	1	1
Q18	Octane number of petrol used in cars in India is (a) Above 100 (b) Between 85 and 95 (c) Between 80 and 85 (d) Below 85	1	2
Q19	Drill bit in a rig is cooled by circulating (a) Water (b) Oil (c) Mud (d) Water & mud	1	1
Q20	Oil and gas value chain includes (a) Upstream, Downstream (b) Upstream, OFS (c) Upstream, OFS, Midstream, Downstream (d) Upstream, Midstream, Downstream	1	1
SECTION B			
Q 1	Explain the business environment in each block of oil and gas value chain.	5	1
Q2	Explain the different mode of transport used in oil and gas industry.	5	2
Q3	Describe LNG Cycle. Elaborate with a schematic diagram.	5	1,2
Q4	Describe the hydrocarbons formation process. Also, explain the hydrocarbon migration process.	5	1
SECTION-C			
Q 1	An offshore field produces sour gas. Draw a block diagram showing different process systems that need to be installed in the platform?	10	1,2
Q2	Explain the importance of feedstock for petrochemical production and process of feedstock formation. Illustrate with the help of block diagram.	10	1,2
Q3	What are the different mode of oil and gas transportation? Write a brief note on each	10	2
SECTION-D			
Q1	What is SCADA and pigging? What are the purposes of various type of pigging operations?	15	2,3
Q2	What is HAZOP? For what purpose it is used? Briefly describe the technique	15	3