

Name:  
Enrolment No:



**UNIVERSITY OF PETROLEUM & ENERGY STUDIES**

**End Semester Examination – May 2024**

**Program: BBA OG**  
**Subject/Course: Understanding Oil and Gas Business**  
**Course Code: OGOG1001**

**Semester: II**  
**Max. Marks: 100**  
**Duration: 3 Hours**

**SECTION A**

1. Each question carries 5 marks

Q.No		Marks	COs
	Section A		
1	<ul style="list-style-type: none"><li>Total number of chemical components in crude oil are a) 100 b) 200 c) 400 d) 500</li><li>LPG is made of a) Propane and Ethane b) Propane and Butane c) Butane d) Pentane</li><li>The largest constituent of natural gas is a) Methane b) Ethane c) Propane d) Butane</li><li>Which is the heaviest crude oil of the four a) 18 API b) 25 API c) 30 API d) 35 API</li><li>MTOE means a) Million tons of oil export c) Million tons of oil equivalent b) Metric Tons of oil Equivalent d) Metric ton of oil export</li></ul>	5	CO1
2	Name two upstream, two downstream and one midstream companies in India	5	CO4
3	The original OPEC members include _____, _____, _____, _____, and _____	5	CO4
4	Expand the following: 1) CNG 2) NGL 3) LNG 4) LPG 5) FPSO	5	CO1,CO2
	Section B		
	1. Each question will carry 5 marks 2. Instruction: Write short/brief notes		
1	What is a fire triangle? Give example from an actual plant.	5	CO2

2	What do you understand by the thermal cracking of petroleum?	5	CO3
3	What are monomers, polymers and co-polymers?	5	CO2
4	Explain HAZID and its benefits	5	CO3
Section C			
Each question will carry 10 marks			
1	What is SCADA? Describe its functions in the pipeline operations.	10	CO3
2	Describe how oil is formed and how it migrated and got trapped in certain locations below the surface of the earth.	10	CO2
3	Give a brief description of the water injection process and In-situ combustion process.	10	CO2
4	What do you understand by an LNG Cycle? Provide a brief description of each stage.	10	CO3
Section C			
1) Instruction: Write a long answer			
2) Attempt any one question			
1	What is HAZOP? For what purpose it is used? Briefly describe the technique.  OR Explain the different types of pipelines. What factors are taken into account in selecting the pipeline route?	20	CO3  CO2