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Bengaluru

Mid Term Examinations - October 2026

Date: 08/10/2026 **Time:** 09:30 AM - 11:00 AM

Course Code: PET1201 **Course Name:** Fundamentals of Oil and Gas Operations

Semester: First Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	28	62

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Name the top four countries having higher proved hydrocarbon reserves in the world, as of 2019 statistics.	2	CO1	BT1
2	State the four A's of energy security.	2	CO1	BT1
3	List the founding members of the OPEC organization.	2	CO1	BT1
4	Explain one advantage and one disadvantage of biomass energy.	2	CO1	BT2
5	Classify the drilling rig based on the prime movers of the rig.	2	CO2	BT2

PARTB: Answer Any 1 Following Questions. 20 M

Q.N.	Questions	M	CO	BT
06.A	Explain the term source rock, reservoir rock, cap rock, structural trap, and stratigraphic trap.	10	CO1	BT2
06.B	Describe the seismic survey method in detail, including wave generation, propagation, recording, travel time analysis, and reflections & refractions.	10	CO2	BT2
07.A	Classify the different types of petroleum companies and explain the characteristics, roles, and operations of each type in detail.	10	CO1	BT2
07.B	Distinguish various geophysical methods and describe them in detail.	10	CO2	BT2

PARTC: Answer Any 1 Following Questions. 20 M

Q.N.	Questions	M	CO	BT
08.A	Describe the function (in 1 sentence) of each component of the mud circulating system of a drilling rig with a neat labelled sketch.	10	CO2	BT2
08.B	Differentiate the offshore drilling platforms on their operating drilling depth and state at-least one advantage and one disadvantage of each type.	10	CO2	BT2
09.A	Summarize the various components of the rotating and well control system of the drilling rig and describe in detail the functions of Rotary table and Ram BOP in drilling operations.	10	CO2	BT2
09.B	Distinguish various oil well casing types and describe each casing type in detail.	10	CO2	BT2