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PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations - March 2026

Date: 13-03-2026

Time: 02:00pm - 03:30pm

School: SOE	Program: B.Tech.-PET	
Course Code: PET1201	Course Name: Fundamentals of Oil and Gas Operations	
Semester: II	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03	C04	C05
Marks	22	28	-	-	-

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	Define oil window and gas window.	2 Marks	L1	C01
2	List the difference between nuclear energy and hydroelectric energy.	2 Marks	L1	C02
3	List some environmental impact of using renewable energy sources.	2 Marks	L1	C02
4	Describe the use of a wildcat well.	2 Marks	L1	C02
5	Identify the stages involved in the generation of fossil fuels.	2 Marks	L1	C02

Part B

Answer the Questions.

Total Marks 40M

6.	Summarize the history and impact of the Standard Oil Company, including the roles of Rockefeller and Clark, the Cleveland Massacre, and the breakup of the company and its influence on the oil industry.	10 Marks	L2	CO1
Or				
7.	Explain the American Petroleum Institute (API) classification of the structure of the petroleum industry and its significance in the global oil and gas sector.	10 Marks	L2	CO1
Or				
8.	Explain the four major categories of petroleum companies and their roles in the oil and gas sector, supporting your answer with suitable examples.	10 Marks	L2	CO1
Or				
9.	Review the economic, environmental, and geopolitical risks affecting the oil and gas industry, citing relevant recent examples.	10 Marks	L2	CO1
Or				
10.	Review the evolution of the Indian oil and gas industry from 1886 to 2016, from the pre-industrial era to the modern period, highlighting significant discoveries and policy initiatives.	10 Marks	L2	CO2
Or				
11.	Explain the classification of petroleum reserves according to industry standards, the key criteria used in their assessment, and the difference between Contingent and Prospective resources.	10 Marks	L2	CO2
Or				
12.	Classify the rotating components of a drilling rig and explain each of them in detail.	10 Marks	L2	CO2
Or				
13.	Explain the seven hoisting components of a drilling rig in detail and illustrate their connections using a schematic diagram.	10 Marks	L2	CO2