

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
END TERM EXAMINATION - JAN 2023**

Semester : Semester III - 2021

Course Code : PET1002

Course Name : Sem III - PET1002 - Introduction to Oil and Gas Industry

Program : B.Tech. Petroleum Engineering

Date : 9-JAN-2023

Time : 1.00PM - 4.00PM

Max Marks : 100

Weightage : 50%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.

PART A

ANSWER ALL THE TEN QUESTIONS

10 X 2 = 20M

1. Name any two top countries with highest solar installed capacity
(CO1) [Knowledge]
2. Define Renewable and Non Renewable energy.
(CO1) [Knowledge]
3. Who is the father of Modern Drilling Technology? When it was started?
(CO1) [Knowledge]
4. Who is the "Prophet of Spindle Top"? Why he/she is called so?
(CO1) [Knowledge]
5. Write the abbreviation of NELP & HELP.
(CO2) [Knowledge]
6. When we can call it as a Production phase of a well?
(CO2) [Knowledge]
7. When was ONGC established? Who was the first women head of ONGC as CMD?
(CO2) [Knowledge]
8. Define Kill Mud. How it was pumped into the wellbore during well control?
(CO3) [Knowledge]
9. Define Rat and Mours hole in drilling.
(CO3) [Knowledge]
10. Write the role of Derrick man and Roughneck.
(CO3) [Knowledge]

PART B

ANSWER ALL THE FOUR QUESTIONS

4 X 10 = 40M

11. "Now a days oil is used as a political weapon"-Substantiate this statement with appropriate caselet.
(CO1) [Comprehension]
12. Do you think India will meet 50 percent of its energy needs from renewable energy by 2030? Justify your answer. How will the shift of subsidies from fossil fuels to renewables help achieve the above objective? ExplainDefault question text.
(CO1) [Comprehension]
13. "Brent vs WTI: Which crude to trade in 2022?"-Discuss.
(CO2) [Comprehension]
14. Let's assume you are a Well Control Engineer at some XYZ drilling rig. It is your responsibility to monitor all the drilling activity along with ensuring smooth conduction of drilling operation. Discuss the parameters you will be relying on which will help you to identify an early kick.
(CO3) [Comprehension]

PART C

ANSWER ALL THE TWO QUESTIONS

2 X 20 = 40M

15. Give an account of the current status and the targets to be achieved pertaining to renewable energy sources in the country.
(CO4) [Application]
16. Describe the major outcomes of the 27th session of the Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC). What are the commitments made by India in this conference?
(CO4) [Application]
