

<b>Name:</b>	
<b>Enrolment No:</b>	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, December 2018**

<b>Programme Name: B.Tech.-CS (OGI)</b>	<b>Semester : I</b>
<b>Course Name : Fundamentals of Oil and Gas Business</b>	<b>Time : 03 hrs</b>
<b>Course Code : CSOG2001</b>	<b>Max. Marks : 100</b>
<b>Nos. of page(s) :1</b>	

**Instructions:**

**SECTION A**

S. No.	Write short notes on the following	Marks	CO
Q 1	How heavy and Light crudes are differentiated? Use API formula and justify?	4	CO1
Q 2	Based on Sulphur content, differentiate Sweet & Sour Crude?	4	CO2
Q 3	What are the different reservoir Traps? Explain using figures?	4	CO3
Q 4	Identify Indian Sedimentary Basins? Rate them based on Oil & Gas reserves?	4	CO2
Q 5	Identify the importance of geochemical methods in hydrocarbon exploration process.	4	CO2

**SECTION B**

	All questions are compulsory	Marks	CO
Q6	How hydrocarbon formation happen? What are the governing factors?	10	CO4
Q7	Differentiate between geological and geophysical parameters for exploration	10	CO3
Q8	Design an detailed approach for exploration procedure for hydrocarbon	10	CO5
Q9	Identify and explain Deterministic and Probabilistic estimates for reserve estimation? OR Explain in detail how Decline Curve Method Hydrocarbon is useful in estimating production?	10	CO3

**SECTION-C**

Q 10	Distinguish the different types of drilling methods and which method would you prefer for offshore drilling in a place like Bombay High and why?	20	CO5
Q11	Illustrate the process and requirement of casing in a bore hole. OR Elucidate the types of well completion processes in a production well.	20	CO4

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**SECTION A**

S. No.	Write short notes on the following	Marks	CO
Q 1	Explain the factors controlling the occurrence of Crude	4	CO1
Q 2	Differentiate between the different crude quality measuring approaches	4	CO2
Q 3	Categorize the different types of hydrocarbon formations	4	CO3
Q 4	Identify and explain the different types of Rocks and their origin	4	CO1
Q 5	Elucidate the processes of trap formation	4	CO2

**SECTION B**

	All questions are compulsory	Marks	CO
Q6	Distinguish between stratigraphic & Structural trap	10	CO3
Q7	Explain in detail the drilling processes	10	CO4
Q8	Illuminate the process of casing & fracturing	10	CO4
Q 9	Identify and explain different types of Coal Mining OR Recognize the different types of wells of crude oil production	10	CO3

**SECTION-C**

Q 10	You have discovered a hydrocarbon reserve in the Deccan Plateau. How would you calculate the estimation of the reserves and why?	20	CO5
Q 11	Identify the pros and cons of Deterministic and Probabilistic estimates. OR Illustrate with diagram the petroleum resource classification	20	CO3