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Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2019

Course: Petroleum Geology Program: M.Tech. PE

Course Code: PEGS 7001

Semester: I Time 03 hrs.

Max. Marks: 100

Instructions:

SECTION A Total Marks: 20

S. No.		Marks	CO
Q 1	Write short Notes on: (i) Gaining Access Phase of oil and gas field life cycle (ii) Appraisal Phase of oil and gas field life cycle	(5×2 = 10)	CO1
Q.2	Distinguish between: (i) Biogenic and Thermogenic gas (ii) NELP and OALP	(5×2 = 10)	CO1
	SECTION B		
	Total Marks: 40		
Q.3	Although NELP rounds have attracted many private & foreign companies, in addition to public sector oil companies, but it had failed in many ways. (i) Elaborate this statement (ii) Analyze the impact of this failure.	(5×2 = 10)	CO1
Q.4	Describe the two most important petro physical properties of reservoir rock. Illustrate your answer with neat figures.	(10)	CO4
Q.5	Write short notes on characteristics of crude oil: (i) API gravity (ii) Pour point (iii) Viscosity (iv) Boiling point OR, Write short notes on characteristics of natural gas: (i) Sweet gas, (ii) Sour gas (iii) Associated gas (iv) Wet gas	(2.5×4 = 10)	CO2

Q.6	Describe the zone in the earth's crust where oil is generated. Illustrate your answer with a neat figure.	(10)	СОЗ
	SECTION- C Total Marks : 40		
Q.7	(a) Define the term sedimentary basin.(b) Describe the theories for basin formation.(c) Describe the various types of divergent basins.	(2+6+12 = 20)	CO5
Q.8	(a) Distinguish between hydrocarbon resource and reserve.(b) Describe the classification of hydrocarbon reserves.	(5)	
	OR, Describe the classification of hydrocarbon resource.	(15)	CO6