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Enrolment No:



UPES

End Semester Examination, December 2024

Programme Name: B. Tech APE
Course Name : Sedimentary and Petroleum Geology : III
: 03 hrs

Course Code : PEGS 2002 Max. Marks : 100

Nos. of page(s): 01

Instructions:

I. Attempts all questions from Section A, Section B & Section C.

II. Use neat and labeled diagram to explain answer where is needed.

SECTION A [Attempt All Questions] -4x5=20 Marks

S. No.		Marks	CO
Q 1	Illustrate the Origin of petroleum.	5	CO1
Q 2	Define Oil Window & Gas Window.	5	
Q 3	Give the sandstone classification based on mineralogical composition.	5	
Q 4	Discuss characteristics of Alluvial fan with its Litholog.	5	CO2
	OR Describe the importance of Porosity and Permeability in Source and Reservoir rocks.	5	
	SECTION B [Attempt All Questions] 10X4=40 Marks	•	
Q 5	Describe in detail about marine processes and their role in understanding depositional environments.		CO2
Q 6	Write a short notes on: i- Reynold's Number ii- Migration of Hydrocarbon	5+5	CO4
Q 7	Differentiate between clastic and carbonate reservoirs. Explain the petro physical properties of both reservoirs. OR Discuss the complete process of hydrocarbon generation, migration and accumulation in petroliferous basin.	10	CO3
Q 8	Discuss the maturation levels of Organic Matters. OR Give the classification of petroliferous basins based on commercial hydrocarbon resources.	10	CO4
	SECTION C [Attempt All Questions] 20X2=40 Marks		
Q 9	Discuss in detail about source rock evaluation methods and Organic Matter preservation potentiality in Basin.	20	CO3
Q 10	Discuss the Relative sea level changes. Illustrate the various system tracts and their geological significance in hydrocarbon exploration. OR Elaborate the trapping mechanism and different types of petroleum Traps.	20	CO4