


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, December 2022</b>			
Course Name: B. Sc. Geology [H]		Semester: III	
Program: Sedimentary Petrology		Time: 3 hrs.	
Course Code: PEGS 2025		Max. Marks: 100	
Nos. of page(s) 2			
<b>Instructions</b>			
I. All questions are compulsory.			
II. Read question carefully and write appropriate answer.			
III. Write correct unit in after numerical calculation.			
IV. Use neat diagram with proper labeling to explain the answer.			
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q 1	Define components of sedimentary cycles.	4	CO1
Q 2	Define texture and major constituents of sandstone.	4	CO2
Q 3	Illustrate petro physical properties of sedimentary rocks.	4	CO4
Q 4	Explain, Diagenesis and Lithification process.	4	CO3
Q 5	State the applications of porosity and permeability in reservoir rock analysis.	4	CO1
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q 6	Differentiate the following - a. Rudaceous & Arenaceous rock b. Alluvial fan & Delta  OR Write short notes on the following- a. Sedimentary process b. Rock cycle	10	CO3
Q 7	Describe the classification of sedimentary depositional environments.	10	CO3
Q 8	Explain any two depositional and erosional landforms develop in fluvial depositional environment with their economic significance.	10	CO2
Q 9	Discuss important criteria followed in classification of sandstone. Give a brief description of components with labelled diagram for sandstone.	10	CO4
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
Q 10	Discuss sedimentary facies and types. How they helpful to analyze paleoclimate and paleo depositional system?	20	CO4

Q 11	<p>Discuss about the concept of sedimentary rock analysis and litholog preparation in the field. State the significance of geological tools used for geo-history analysis.</p> <p style="text-align: center;">OR</p> <p>Give the Interpretation for various sedimentary environments in terms of preserved life remains, primary sedimentary structures, texture and lithology.</p>	<b>20</b>	<b>CO3</b>
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