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Enrolment No:



End Semester Examination, May 2023

Course: PETROLEUM EXPLORATION Semester: II **Program: MSc Petroleum Geoscience** Time : 03 hrs. Course Code: PEGS 7028 Max. Marks: 100

Instructions: Draw correct diagram whenever requires. Attached the log image with answer sheet.

SECTION A (5X4=20Marks) S. No. Marks co List the necessary tools and methodologies essential for reservoir characterization. Q 1 4M CO1 Mention the traditional well logs alongside their respective uses. Q 2 4M CO2 Outline the necessary tools and methodologies essential for reservoir characterization. Q 3 4M CO3 Define a petroleum source rock. Explain the important parameters and their threshold Q 4 4M CO3 values of different types of petroleum source rocks. Discuss the special core analysis techniques for petrophysical properties evaluation Q 5 CO2 4M **SECTION B** (4Qx10M= 40 Marks) (a) Differentiate between hydrocarbon resources and reserves. Q 6 10M CO2 (b) Elucidate the distinction between porosity and permeability in petroleum reservoirs. Expand on the following methods employed in petroleum exploration: Q 7 (a) Seismic data acquisition CO3 10M (b) Surface geochemical exploration. Discuss about the stratigraphy and petroleum system of Cambay Basin. Q8 10M **CO4** Draw the Van Krevelen diagram and mark the zones of different kerogen types. Q9 10M CO4 SECTION-C (2Qx20M=40 Marks) Refer the log image and answer the following questions: 10X Q 10 2= C05 20 М

