N	ame	•
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Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Online End Semester Examination December 2020

Program: B-Tech APE –GAS Semester: III

Course: Petroleum Exploration Time: 180 minute (3 hour)

Course Code: PEGS-3013 Max. Marks: 100

Number of pages: 03 Note: online submission

SECTION A

1. Each questions carry 5 Marks

6 X 5 = 30 M

- 2. Type answer for all the questions in the answer sheet using given space.
- 3. The maximum word limit is 30 or 3 lines.

Q.No	Question	СО
1	How you will distinguish between Radiogenic and Geogenic Helium?	CO2
2.	Define the terms Reef and Pinchout	CO1
3	Write a note on following terms in context with Petroleum exploration. i) Trap ii) Kerogen.	CO1
4	 Fill in the blanks with suitable answer: i)	CO5
5	What are the common sources of radiogenic heat for shallow crustal level?	CO4

molecule	es is called hydrates.
i) The p	rocess of changing volume as stress is applied to a body is called dilatation.
ii) The 1 the earth	esolution of MT surveys is not limited by the diffusive nature of EM propagation in .
iv) The I Resistivi	MT soundings over the area of target, providing slices of subsurface ty data.
v) The fl survey.	ow of charged particles in ionosphere zones are cannot vary the frequency of MT

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SECTION B 1. Each questions carry 10 Marks 5 X 10 = 50 M2. Scan and upload your answer 3. The maximum word limit is 500 or one page Q.No Question CO 7 Write a short note on how microbiological method can be helpful in hydrocarbon exploration? CO₅ OR Define trap and discuss in brief classification of trap. What is the importance in fixing the datum for gravity geophysical survey? 8. CO2 What are static corrections in reflection seismic geophysical survey? 9 CO₆ Explain in brief the working principle, merits and demerits of Shipborne and Bell gravimeter in 10 CO4 gravity survey. Discus in brief the refraction seismic survey and their significance in petroleum exploration. 11 CO₆

	SECTION C					
1.	Answer either question a or b 1 X 20	$\mathbf{X}\ 20 = 20\ \mathbf{M}$				
2.	Scan and upload your answer					
Q.No	Question	CO				
12	a) What are different temporal variations of magnetic observations and how they are	CO4				
	accommodated in magnetic geophysical survey?					
	OR					
	b) Discus in brief the role following terms in Magnetic geophysical survey					
	i) Magnetic flux, ii) Magnetic permeability, iii) Magnetic susceptibility and iv)					
	Magnetic variation.					