

Name:	 <b>UPES</b> UNIVERSITY WITH A PURPOSE
Enrolment No:	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, December 2020**

<b>Course:</b> Introductory Geology <b>Program:</b> B. Tech Geoinformatics Engineering [GIE] <b>Course Code:</b> PEGS 2013	<b>Semester:</b> III <b>Time</b> 03 hrs. <b>Max. Marks:</b> 100
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**SECTION A**

1. Each Question will carry 5 Marks
2. Instruction: Complete the statement / Select the correct answer(s)
3. All Questions are compulsory.

S. No.		Marks	CO
Q 1	Define Dip & Strike.	5	CO1
Q 2	<b>Select True/False-</b> i. Marble is metamorphic rocks of Sandstone. ii. Vesicles are very common in plutonic rocks. iii. Diagenesis is a sedimentary process. iv. Olivine is more resistant mineral than Quartz for weathering. v. Sandstone mostly made by silt and clay size of particles.	5	CO2
Q 3	Give the name of any three Sedimentary, Igneous and Metamorphic rocks.	5	CO2
Q 4	<b>Fill in the Blanks-</b> i. Degree of roundness represent .....Distance for sediments. ii. Topaz has number.....in Moho scale of Hardness. iii. Chemical composition of Olivine is ..... iv. Name of Two Plutonic rocks are..... v. Example of Rudaceous rock is .....	5	CO3
Q 5	Define Epicenter and Focus of Earthquakes.	5	CO3
Q 6	Define Streak and Luster.	5	CO2

**SECTION B**

1. Each question will carry 10 marks.
2. Instruction: Write short / brief notes.
3. Attempt all the Questions.

Q 7	Create difference between Anticline and Syncline.	10	CO4
Q 8	Write a short notes on <b>any two:</b> i- Normal Fault ii- Subduction Zone iii- Rift Valley	10	CO4
Q 9	Illustrate internal structure of Earth and Rock Cycle	10	CO3

Q 10	Explain elastic rebound theory. Define focus of earthquakes.	10	CO4
Q 11	Illustrate any two Depositional and erosional geomorphic features develop by geological works of wind.	10	CO3
<b>SECTION-C</b>			
<b>1. Each Question carries 20 Marks.</b>			
<b>2. Instruction: Write long answer.</b>			
Q 11	Discuss the Petrification and Carbonization fossilization process. Write the uses of fossils in petroleum exploration?	20	CO3
	OR		
	Describe the causes of Earthquakes. Explain the significance of body wave and surface wave in geo-exploration.	20	CO4