

Name:	 UPES <small>UNIVERSITY OF TOMORROW</small>
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Term Examination, December 2022

Programme Name: B.Tech (APE-Up)	Semester: III
Course Name : Introduction to Geology	Time : 3 Hr
Course Code : PEGS 2012	Max. Marks : 100
Nos. of page(s) : 1	
Instructions: Draw sketches if necessary.	

SECTION A (4x5=20)

Attempt all questions

S. No.		Marks	CO
Q1	Describe how seismic waves help in understanding internal structure of Earth?	4	CO2
Q2	Define foot wall and hanging wall for a given fault.	4	CO5
Q3	Define solid solution with any one example	4	CO1
Q4	Describe shear strain and shear stress	4	CO5
Q5	Define angular unconformity.	4	CO5

SECTION B (10x4=40)

Attempt all questions

Q6	Describe the Law of Uniformitarianism and Law of Superposition in historical geology.	10	CO4
Q7	Discuss different methods of fossilization.	10	CO6
Q8	Evaluate the classification of igneous rock on the basis of mineralogy and crystallography.	10	CO3
Q9	Describe Geodynamo model for formation of earth's magnetic field. <p style="text-align: center;">OR</p> Evaluate the action of river in formation of different geological structure.	10	CO2

SECTION C (20x2=40)

Attempt all questions

Q10	Describe Strike slip fault, Oblique slip fault, Horse & Graben, and Rotational Fault.	20	CO5
Q11	Critically examine the role of fold, fault, salt-dome structure, and stratigraphy in evaluating the prospects of hydrocarbon prospects <p style="text-align: center;">OR</p>	20	CO2

	Describe the zone structure of earth and main forces behind plate movements.		
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