


Name:			
Enrolment No:			
UPES End Semester Examination, December 2023			
Course: Earth System Science Program: B.Sc. Geology (Hon) Course Code: PEAU4021P		Semester: I Time : 03 hrs. Max. Marks: 100	
Instructions: Answer all questions. However, there is internal choice in Q9 and Q11			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Describe the term cosmic abundance of elements.	4	CO1
Q 2	List out the types of stratigraphic classification.	4	CO2
Q 3	Explain about crustal magnetism of Earth	4	CO3
Q 4	List out the soil classification as per the ICAR guideline	4	CO2
Q 5	Define the term GSSP or Stratotype	4	CO1
SECTION B (4Qx10M= 40 Marks)			
Q 6	Explain in detail about Isotopic fractionation.	10	CO4
Q 7	Explain the basic laws of stratigraphy	10	CO1
Q 8	Evaluate the distribution of elements in Solar system and Earth	10	CO3
Q 9	Evaluate the self sustainable ecosystem of biosphere. OR Explain the concept of Biostratigraphy.	10	CO2
SECTION-C (2Qx20M=40 Marks)			
Q 10	Describe the different types of volcanoes with sketch diagram and types of magma associated with volcano.	20	CO3

Q 11	<p>Evaluate the reasons for earthquakes and describe the various measurement scales for earthquake magnitude.</p> <p style="text-align: center;">OR</p> <p>Describe the major soil types in India on the basis of genesis, colour, composition and location.</p>	20	CO4
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