Name:

**Enrolment No:** 



## **UPES End Semester Examination, December 2024**

Course: Fundamental of Geology
Program: B.Sc. Chem, Physics & Maths.

Course Code: PECS 1014

Max Marks: 1

Max Marks: 1

Course Code: PEGS 1014 Max. Marks: 100

## **Instructions:**

1. All Questions are Compulsory in Sections A, B and C.

2. Choices are given in Section B for Question No.7 and in Section C for Question No. 11.

## **SECTION A (5Qx4M=20Marks)** S. No. Marks CO State the importance of geology in the development of a nation CO<sub>1</sub> Q 1 [4M] Q.2 Match the Following: 1. Physical Geology 1. Geologic history of the area through rock records 2. Stratigraphy 2. Study of rocks [4M] CO<sub>1</sub> 3. Geomorphology 3. Study of landforms and the processes that shape them. 4. Causes & Consequences of 4. Petrology natural Earth Processes Q.3 Identify the application of chemistry in Geo Sciences. [4M] CO<sub>1</sub> **Q.4** Explain the term wind attrition. [4M] CO<sub>2</sub> Q.5 Distinguish between Bhabar and Tarai [4M] CO<sub>2</sub>

	SECTION B (4Qx10M= 40 Marks)		
Q.6	Describe the Planetesimal Hypothesis for the origin of the earth with suitable figure. Also highlight the drawbacks of this hypothesis.	[8+2M]	
Q.7	Illustrate the causes for the formation of sedimentary rock.		
	OR,  Illustrate in detail the agents which bring about metamorphic changes in the rocks.	[10M]	CO3
Q.8	Discuss the types of unconformities with neat figures.	[10M]	CO4
Q.9	Demonstrate with neat figures the mechanism of convergent plate boundaries and the associated features that are formed in this type of plate boundaries.	[10M]	CO3
	SECTION-C (2Qx20M=40 Marks)		
Q.10	Illustrate the following stratigraphic principles with neat figures:  1. Principle of the order of ssuperposition 2. Principle of uniformitarianism 3. Principle of original horizontally 4. Principle of llateral ccontinuity	[5×4= 20M]	CO4
Q.11	Illustrate the classification of folds on the basis of position of axial plane.  OR,	[20M]	CO4
	<ul><li>(a) Illustrate the classification of faults on the basis of fault pattern.</li><li>(b) Analyze the importance of faults.</li></ul>	[16+4M]	