

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, January 2021

Course: Earth System Science
Program: B.Sc. Geology
Course Code: PEGS 1001

Semester: I
Time 03 hrs.
Max. Marks: 100

SECTION A

Each Question will carry 5 Marks.

S. No.	Question	CO
Q 1	List five points on importance of Paleontology.	CO1
Q 2	Describe in brief about Ocean current system.	CO3
Q 3	Define Chemical Differentiation process.	CO3
Q 4	Describe the Geochemical Cycle.	CO4
Q 5	Define in brief about sea-floor spreading	CO3
Q6	List any three significance of Cosmic abundance of elements in Geoscience.	CO1

SECTION B

1. Each question will carry 10 marks
2. Instruction: Write short notes

Q 7	Explain wave erosion and resultant landforms.	CO2
Q 8	Discuss about Beach processes and its significance. OR Define Atmospheric circulation and Explain role of Atmospheric circulation.	CO2
Q 9	Plot the following data of Soil composition on a ternary diagram and identify the Soil type. a) Sand= 45%, Clay = 20%, Silt = 35% b) Sand= 15%, Clay = 35%, Silt = 50%	CO2
Q 10	Evaluate role of various factors responsible for formation of soil.	CO2
Q11	Describe Earth's heat budget.	CO3

SECTION-C

1. Each Question carries 20 Marks.
2. Instruction: Write long answer.

Q 12	<p>Explain:</p> <ul style="list-style-type: none">A) Concepts of uniformitarianism, catastrophism and neptunism.B) Basic Laws of Stratigraphy. <p>OR</p> <p>Discuss various types of stratigraphic records (Litho, Bio, Geo, Magneto etc.) and their significance.</p>	CO4
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