

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2021

Course: Environmental Geology
Program: B. Tech GSE
Course Code: (PEGS4009)

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

SECTION A [6x5=30marks]

- 1. Each Question will carry 5 Marks**
- 2. Instruction: Complete the statement / fill the correct answer(s)**

S. No.	Question	CO
Q 1	Mention 5 solutions to control the Surface water and groundwater pollution.	C01
Q2	Mention the types of the soil layers/horizons.	C01
Q3	Explain the uses of risk analysis for environmental assessment	C02
Q4	List the tools and techniques available for geohazard prediction	C03
Q5	Explain about ground water aquifers	C01
Q6	Mention about various models to monitor and prevent degradation of the earth resources.	C03

SECTION B[5x10=50marks]

- 1. Each question will carry 10 marks**
- 2. Instruction: Write short / brief notes**

Q 7	Discuss the plate boundaries and other related motions and processes inside the earth. (10)	C03
Q 8	Discuss the solutions for environmental risk reduction in following sectors (a) mining industries (b) oil and gas industries [10]	C03

		C03
Q 9	Discuss about the landslide disaster in Uttarakhand : root causes and impacts [10 marks]	C03
Q 10	Discuss about any resource of clean energy, its prospect in India, present scenario and exploration techniques. (10marks)	C04
Q 11	(a) Describe about global climate change. (b) Elaborate how to reduce Co ₂ from the atmosphere [5+5=10 marks]	C04

OR

Q 11	Discuss about the importance of environmental geology aspects for decarbonization and sustainable future. (10marks)	C04
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Section C

- 1. Question 12 carries 20 Marks.**
- 2. Instruction: Write long answer.**

Q12	(a) Assess geohazards and landforms arising because of various earth processes. (b) Analyze global environmental issues and their local impacts. (10+10)	C05
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OR

Q12	Design a device which can control any of following hazards (a) Flood (b) Landslide (c) Earthquake (d) Oil spill Draw the design, label all component of the device and explain their application/uses (10+10)	C05 [10+5+5]
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