Name:

Enrolment No:



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

Programme Name: B.Sc Geology (Hons)

Course Name : Earth System Science

Course Code : PEGS 1001

Nos. of page(s) : 1

Instruction: Draw sketches if necessary

SECTION-A (5Q x 4M=20)

Sl. No.	Attempt all questions	Marks	CO
	Answer in one or two lines		
Q1	Describe unconfined aquifer.	4	CO2
Q2	Describe geodynamo model for earth's magnetic field.	4	CO1
Q3	Differentiate between aquifer and aquiclude.	4	CO2
Q4	Describe artesian spring and artesian well.	4	CO2
Q5	Define Concurrent Range zone in Biostratigraphy.	4	CO4
	SECTION-B (4Q x 10M=40)		1
	Attempt all questions		
	Answer in few lines		
Q6	Describe groundwater distribution in an ideal soil profile.	10	CO2
Q7	Describe Principle of Lateral Continuity and Cross-cutting relationships to establish stratigraphy of an area.	10	CO4
Q8	Describe Chronostratigraphic units according to hierarchy.	10	CO4
Q9	Describe a water shed with proper drainage stream ordering.	10	CO2
	SECTION-C (2Q x 20M=40)		
	Attempt all questions		
	Answer comprehensively		_
Q10	Describe Sea Floor Spreading hypothesis and its importance in plate tectonics theory.	20	CO3
Q11	Describe importance of Trench Roll Back in formation of Back Arc Basin.	20	CO3

Semester : I Time : 03:00 hrs Max. Marks: 100