


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2022			
Programme Name: Int B.Sc (Hons)-M.Sc - Mathematics		Semester : II	
Course Name : Earth Resources		Time : 03:00 hrs	
Course Code : PEGS 1008G		Max. Marks: 100	
Nos. of page(s) : 1			
SECTION A (5Qx4M=20Marks) (Attempt all questions)			
S. No.		Marks	CO
Q 1	Differentiate between nuclear fission and fusion.	4	CO3
Q2	Define renewable energy with example.	4	CO2
Q3	Define an unconfined aquifer system.	4	CO4
Q4	Classify different types of geothermal resources.	4	CO3
Q5	Define a drainage basin.	4	CO4
SECTION B (4Qx10M= 40 Marks) (Attempt question 6, 7, 8 and any one of the question 9)			
Q 6	Differentiate between Gross Head and Net Head for a hydropower plant.	10	CO4
Q7	Describe different configurations of solar room heating systems.	10	CO3
Q8	Describe the working principal of binary cycle geothermal power generation plant.	10	CO3
Q9	Differentiate between green field and brown field projects in mining industry. Or Differentiate between strata bound and stratified mineral deposit.	10	CO1
SECTION-C (2Qx20M=40 Marks) (Attempt question 10 and any one of the question 11)			
Q 10	Illustrate application of different geophysical methods for ore mineral exploration.	20	CO1
Q11	Illustrate greenhouse effect, its causes and consequences on global climate.	20	CO2

Or

Illustrate different models of precipitation.