Name:

**Enrolment No:** 



Semester: 1

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

Course: Rocks and Minerals

Program: BSc Geology(H) GE (Phy-Math)

Course Code: PEGS1004G

Max. Marks: 100

## **Instructions:**

1) One questions in sections b and c is having an internal choice

2) Draw figures wherever necessary

## SECTION A (5Qx4M=20Marks)

S. No.	(DQA IIVI—ZUVIZINIS)	Marks	СО
Q 1	Describe five optical properties of Muscovite.	4	CO1
Q 2	Differentiate between discordant and concordant igneous bodies.	4	CO3
Q 3	Describe mode of formation of sedimentary rocks.	4	CO2
Q 4	Define Bowen's reaction series.	4	CO2
Q 5	Distinguished between optical and physical property of mineral.	4	CO1
	SECTION B		
	(4Qx10M=40 Marks)		
Q 1	Describe physical properties of Quartz and Feldspar.	10	CO1
Q 2	Define Metamorphic rocks and type of metamorphism.	10	CO3
Q 3	Define convergence plate boundary and give an example.	10	CO4
Q 4	Describe different optical properties of Biotite and Plagioclase.	10	CO2
	SECTION-C (2Qx20M=40 Marks)		1
Q 3	Describe the theory of Sea floor spreading and convection current hypothesis.  Or  Define Plate tectonics and different plate boundaries. Illustrate different plate boundaries.	20	CO4
Q 4	Illustrate rocks cycle and describe different mode of formation of rocks.	20	CO3