


Name: Enrolment No:			
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		Semester: 1 Time : 03 hrs. 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.		Marks	CO
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)			
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