


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022			
Course: Mineral Science Program: B.Sc Geology (Hons) Course Code: PEGS 1002		Semester: I Time : 03 hrs. Max. Marks: 100	
Instructions:			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Define mineraloid with suitable example	04	CO1
Q 2	Explain the composition of magma	04	CO2
Q 3	Classify and arrange Coal with respect to their rank.	04	CO2
Q 4	State the special properties of minerals related to change/ alteration in temperature ad pressure.	04	CO1
Q 5	Differentiate between Isotropism and anisotropism	04	CO3
SECTION B (4Qx10M= 40 Marks)			
Q 6	Differentiate between continuous and discontinuous series	10	CO3
Q 7	Paraphrase the concept of Solid Solution series in ortho-pyroxene	10	CO2
Q 8	Organize the properties of mineral in order of their importance/ significance.	10	CO4
Q 9	Calculate the degree of freedom for a Uni-component system	10	CO3
SECTION-C (2Qx20M=40 Marks)			
Q 10	Using neat sketch, label the components of microscope highlighting their respective significances	20	CO4
Q 11	Birefringence is a property exhibited by Anisotropic minerals only. Validate the same with suitable justification/s <p style="text-align: center;">OR</p> Cubic minerals are isotropic in nature. Defend the same with suitable diagram	20	CO4