21MNP1C1L

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Sl. No.

M.Tech. I Semester Degree Examination, April/May - 2024 MINERAL PROCESSING

Mineralogy

(NEP)

Time: 3 Hours Maximum Ma			arks : 70	
Instructions: 1. Answer any five of the following questions. 2. Each question carries equal marks. 3. Question number 1 is compulsory.				
1.	(a) (b)	Explain the classification of crystals. Write a note on twinning and its types.	7 7	
2.	(a) (b)	Write a note on types of luster and diaphinity. Difference between crystalline and amorphous states.	7 7	
3.	Det	ermination of specific gravity by Jolly's spring balance and Walker's steel yard.	14	
4.	(a) (b)	Explain the classifications of Silicate structures. Write a note on Pyroxene group of minerals.	7 7	
5.	(a) (b)	Write a note on petrological microscope. Nicole prism and its construction.	7 7	
6.	(a) (b)	Write a note on opalescence and phosphorescence. Write a note on isotropism, polymorphism and pseudomorphism.	7 7	
7.	(a) (b)	Write a note on Silica group of minerals. Write a note on carbonates.	7 7	
8.	(a) (b) (c)	Discuss the properties based on heat and magnetism. Write a note on non silicate group of minerals. Discuss Interference colours and Birefringence.	5 5 4	