21APG2C5L

Sl. No.



M.Sc. II Semester Degree Examination, Sept./Oct. - 2024 APPLIED GEOLOGY

Igneous Petrology

(NEP)

Time: 3 Hours Maximum Marks: 70

Not	te:	Answer any five of the following questions, each question carries equal marks.	
1.	(a)	Discuss the rock cycle with neat diagram.	7
	(b)	Explain the classification of igneous rocks.	7
2.	(a)	Describe the importance of Diopside.	7
	(b)	Explain the importance of Fosterite with examples.	7
3.	(a)	Add a note on applications of phase diagram.	7
	(b)	Discuss the ${\rm H_2O}$ phase diagram.	7
4.	(a)	Explain the magmatic differentiation and crystallization of magma.	7
	(b)	Explain the Mid Oceanic Ridge (MOR) volcanism.	7
5.	(a)	Describe the IUGS Classification of Igneous rocks.	7
	(b)	Give detailed account on QAPF diagram.	7
6.	(a)	Explain the importance of Kimberlites.	7
	(b)	Write a note on Deccan basalts.	7
7.	(a)	Discuss the concept of Lever rule and Tie line.	7
	(b)	Explain the rocks with a mass of more than 90% ultramafic rocks.	7
8.	Write short notes on :		
	(a)	Gabbroic rocks	5
	(b)	Carbonatites	5
	(c)	Characteristics of Magma	4

