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# 21APG2C6L

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Sl. No.

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

## **APPLIED GEOLOGY**

### **Metamorphic Petrology**

#### (NEP)

Time : 3 HoursMaximum Marks : 70Note : Answer any five of the following questions, each question carries equal marks.			
	(b)	Describe the structure of metamorphic rocks.	7
2.	(a)	Give a detailed account on AKF diagram.	7
	(b)	Describe the phase diagrams and phase rules with applications.	7
3.	(a)	Discuss the low-pressure and very high-pressure metamorphic facies.	7
	(b)	Discuss the role of temperature, pressure and fluids in metamorphism.	7
4.	(a)	Explain the metamorphism of olitic and calcareous rocks.	7
	(b)	Discuss the metamorphism related to opiolites.	7
5.	(a)	Give detailed account on importance of Gneiss and Phyllite.	7
	(b)	Give detailed account on importance of Novaculite and Skarn.	7
6.	(a)	Explain the metamorphic differentiation.	7
	(b)	Discuss the regional and thermal metamorphism.	7
7.	(a)	Discuss the ocean floor metamorphism.	7
	(b)	Describe the Quartzite with industrial applications.	7
8.	Writ (a) (b) (c)	te short notes on : Open and Closed System. Metasomatism Gneiss	5 5 4

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