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76412

M.Sc. II Semester (CBCS) Degree Examination, September/October - 2022 APPLIED GEOLOGY

21APG2C6L : Metamorphic Petrology

Time : 3 Hours

Maximum Marks: 70

Note : Answer **any five** of the following questions with Question No.1 is **Compulsory**, each question carries **equal** marks.

1.	(a)	What is metamorphism ? Describe the types of metamorphism.	7
	(b)	Add a note on structure and texture of metamorphic rocks with neat sketches.	7
2.	Give	a detailed account on Application of phase rule in metamorphic petrology.	14
3.	(a)	Describe the concept of metamorphic facies.	7
	(b)	Explain the role of fluids in metamorphism.	7
4.	Answer the following :		
	(a)	Regional Metamorphic facies	7
	(b)	Metasomatism	7
5.	(a)	Write a detailed note on the grades of metamorphism.	7
	(b)	Describe the process of Metamorphic differentiation.	7
6.	(a)	Write a note on chordates.	7
	(b)	Describe the mineralogy, texture and origin of amphibolites.	7
7.	(a)	What is contact aureole and add a note on facies of contact metamorphism.	7
	(b)	Add a note on Ocean floor metamorphism.	7
8.	Writ	Write a note on :	
	(a)	Phyllite	5
	(b)	Gneiss	5
	(c)	Quartzite	4
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