2008-2009 M.Sc. (IV SEMESTER) EXAMINATION APPLIED GEOLOGY GEOCHEMISTRY - II

(GLM-X001) Duration: Two Hours Maximum Marks: 35

	4.1	
Answer	all	questions.

Answe	er all questions.	1
1.	Briefly describe geo-chemical characteristics of any two of the following mantle components: (a) Dupal (b) HIMU (c) EM -1.	09
	OR OR	
1'.	Discuss the applications of oxygen isotopes in solving petrogenetic problems.	
2.	Give an account of fractionation of sulpher isotopes in different geological	٠.
	environments.	09
	OR	
2'.	Discuss the significance of carbon isotopes in marine and non-marine	
	environments.	
3.	Write short notes on the following:	09
	(a) First law of thermodynamics	
	(b) Activity \checkmark	
	(c) Principles of ionic substitution.	
4.	Write an account of geo-chemical anomalies. How they are identified and	
	used in geo-chemical exploration?	08
	Add spinis to considerate	