B.Sc. (CBCS Pattern) Sem-III USGEOT05 : Geology Paper-I : Igneous Petrology

P. Pages : 2 Time : Three Hours		lours * 2 2 5 3 *	GUG/W/22/11608 Max. Marks : 50
		 All questions are compulsory and carry equal marks. Draw neat sketches wherever necessary. 	
1.	Define petrology and describe concordant forms of igneous rocks with neat sketches.		
		OR	
	Write notes on the following:		
	i)	Ropy lava and Blocky lava.	
	ii)	Vesicular and Amygdaloidal structure	
2.	Define texture and give a brief account of textures in igneous rocks.		
		OR	
	Describe the following:-		
	i)	Mineralogical characteristics of acid igneous rocks.	
	ii)	Mineralogical characteristics of ultra basic igneous rocks.	
3.	Des	scribe in details on composition and origin of magma.	
		OR	
	Wr	ite notes on the following:	
	i)	Discontinuous reaction series.	
	ii)	Continuous reaction series.	
4.	Giv	ve a brief account of crystallization of bicomponent magma.	
		OR	
	Des	scribe the following:	
	i)	Phase equilibria and their application in petrology.	
	ii)	Crystallization of unicomponent magma	

- Write on the following in not more than two sentences: **any ten**.
 - a) Dyke

5.

- b) Pillow structure
- c) Cone sheets
- d) Name any two felsic minerals
- e) Name any two mafic minerals
- f) Name any two volcanic rocks.
- g) Differentiation
- h) Assimilation
- i) Hybrid rocks
- j) Component
- k) Concept of system
- l) Phase rule
