Bachelor of Science (B.Sc.) Third Semester (Old Course)

B.Sc.23101 – Geology: Paper – I (Igneous petrology)

	ages : 1 e : Three H	ours	* 0 9 7 9	 *	GUG/W/18/1266 Max. Marks : 50
		 All questions are compuls Draw neat sketches where 	-	· ·	
1.	Describe with neat sketches concordant forms of Igneous rocks. OR				
	Describe mineralogical characters of basic and ultrabasic igneous rocks.				
2.	Giv	e an account of Bowen's reaction	on series.		
			0	R	
	Des	cribe the process of crystallizat	tion of unio	component magma.	
3.	Des a) c)	cribe the following:- Rock cycle Fractional crystallization	b) d)	Porphyritic texture Phase equilibria R	
	Des e) g)	cribe the following:- Blocky Lava and Ropy Lava Filter pressing	f) h)	CIPW classification Mixed crystals	
4.	Wri a) c)	te brief notes on the following Batholiths Hybrid rocks	b) d)	Directive textures Non mixing constituents.	
	OR Write brief notes on the following:-				
	e) g)	Columnar structure Assimilation	f) h)	Pegmatite Chemical potential	
5.	Write on the following in not more than two sentences any ten:-				
	a)	Petrology	b)	Pillow Lava	
	c)	Platy structure	d)	Holocrystalline rocks	
	e)	Salic minerals	f)	Holohyaline rocks	
	g)	Magma	h)	Pyrogenetic minerals	
	i)	Gaseous transfer	j)	Concept of phase	
	k)	Concept of Component	1)	Concept of System	
