## Bachelor of Science (B.Sc.) (CBCS Pattern) Third Semester

## USGEOT05 - Geology : Paper-I (Igneous Petrology)

P. Pages: 1 Time: Three Hours		Hours	* 3 8	GUG/W/18/11608 Max. Marks : 50	
	Notes:	1. 2.	All questions are compulsory an Draw neat sketches wherever ne		• •
1.	Describe with neat sketches Discordant forms of Igneous rocks.  OR				
	Gi	ve an	account of the following:-		
	i)		low structure and flow structure.		
	ii)	Sh	eet and platy structures.		
2.	Give an account of mineralogical characteristics of basic and ultrabasic igneous rocks.  OR				
	$\mathbf{W}_{1}$	rite n	otes on the following :-		
	a)		yolite and Granite.		
	b)	Op	ohitic and Sub-ophitic texture.		
3.	Give an account of Assimilation and hybrid rocks.  OR				
	Gi	ve an	account of the following: -		
	i)		ontinuous reaction series.		
	ii)	Di	scontinuous reaction series.		
4.	Describe crystallization of Bi-component magma.  OR				
	Give a brief account of the following: -				
	a)		ystallization of Uni-component m		
	b)	Ph	ase equilibria and their application	n in p	petrology.
5.	Write on the following in not more than two sentences solve any ten.				
	a)	Ve	esicular structure.	b)	Blocky lava.
	c)	Ro	py lava.	d)	Porphyritic texture.
	e)	Na	me any two over saturated rocks.	f)	Name any two holocrystalline rocks.
	g)	Ga	seous transfer.	h)	Filter pressing.
	i)	De	finition of Magma.	j)	Concept of system.
	k)	Ph	ase.	1)	Phase rule.

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