B.Sc. (CBCS Pattern) Semester - II USGEOT04 - Geology Paper-II (Crystallography and Optical Mineralogy)

P. Pages : Time : Th		ours * 1 7 1 4 *	GUG/S/23/11583 Max. Marks : 50
Not		 All questions are compulsory and carry equal marks. Draw neat sketches wherever necessary. 	
1.	Giv	e an account of Miller indices and Weiss parameters.	
		OR	
	Wri	ite short notes on the following.	
	a)	Crystal structure of NaCl.	
	b)	Weiss parameters.	
2.		e an account of Baryte class of orthorhombic system with reference nents, forms along with their miller indices.	to symmetry
		OR	
	Wri	ite short notes on the following.	
	a)	Cube and Trapezohedron.	
	b)	Crystallographic axis of Zircon.	
3.		e an account of Axinite class of Triclinic system with reference to syns along with their miller indices.	ymmetry elements,
		OR	
	Wri	ite short notes on the following.	
	a)	Symmetry elements of hexagonal system.	
	b)	Di hexagonal pyramid and Hexagonal prism first order.	
4.	Des	scribe with neat sketches optical characters of Muscovite, Albite, Kya	nite and Actinolite.
		OR	
	Des	scribe the optical proportion of the following.	
	a)	Cleavage and relief.	
	b)	Chlorite and hornblende.	

- Write the following in not more that two sentence solve any ten.
 - a) Space lattice.
 - b) Solid angle.
 - c) Zone.

5.

- d) Name any two minerals that crystallize in tetragonal system.
- e) Center of symmetry.
- f) Plane of symmetry.
- g) Name any two mineral that crystallize in Hexagonal system other that Beryl.
- h) Quarter bipyramid.
- i) Name any two minerals crystallizing in monoclinic crystal system.
- j) Plane polarized light.
- k) Cross hatching.
- l) Relief of Quartz.
