## Bachelor of Science (B.Sc.) Second Semester Old 2SGeo-T2 - Geology Paper-II (Crystallography and Optical Mineralogy)

P. P Tim	ages : 1 e : Three Ho	ours * o	9 5 4	*	<b>GUG/W/18/1241</b> Max. Marks : 50
	Notes :1.All questions are compulsory and carry equal marks.2.Draw neat sketches wherever necessary.				
1.	What is interfacial angle? Describe neat labeled diagram of contact goniometer.				
	Give axial and symmetry elements of zircon class and describe its forms with Millerian indices.				
2.	Give	e axial and symmetry elements of a swith Millerian Indices.	Beryl cl	lass of Hexagonal system	and describe its
	<b>OR</b> Describe optical characters of Garnet, Calcite, Biotite and Orthoclase.				
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з.	a) c)	Constancy of interfacial angle. Symmetry elements of axinite cla	b) ass. d)	Trisoctahedron. Double refraction.	
	Des e) g)	cribe the following :- Crystallographic axes. Quarter Bipyramid.	f) h)	Symmetry elements of Becke line method.	baryte class.
4.	Write brief notes on the following :-				
	a) c)	Rationality of indices. Symmetry elements of gypsum c	b) lass. d)	Tetrahexahedron. Anisotropism. <b>R</b>	
	Des	cribe the following:-			
	e) g)	Clinodome.	f) h)	Macrodome. Interference colours.	
5.	Write on the following in not more than two sentences solve any ten.				
	a)	Closed form.	b)	Crystallography.	
	c)	Centre of symmetry.	d)	Hexoctahedron.	
	e)	Brachy pinacoid.	f)	Basal pinacoid.	
	g)	Hemi pyramid.	h)	Hemi orthodome.	
	i)	Hemi macrodome.	j)	Oblique extinction.	
	k)	Plane polarized light.	1)	Twinning.	

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