## B.Sc. Part-I Semester-I Examination GEOLOGY (NEW)

## General Geology, Physical Geology, Mineralogy, Crystallography & Field

Time			Hours] [Maximum Marks:	80			
N.B.	:	(1)	All the questions are compulsory.				
			Draw neat and well labelled diagram wherever necessary.				
1.	(A)		in the blanks:				
		(i)	During the crystallization the foreign particles caught up within the clear crystare called	tal			
		(ii)	The Mineral Muscovite shows type of form.				
		(iii)	Solid product of Volcanoes are known as				
		(iv)	The angle at which the total internal reflection takes place are called as	·			
	(B)	Cho	pose the correct alternatives :				
		(i)	Multiple twinning is a characteristic of:				
			(a) Mica Family (b) Feldspar Family				
			(c) Pyroxene Family (d) Amphibole Family				
		(ii)	The Mineral that shows darkness through out the rotation of stage under-cro nicol are called as:	SS-			
			(a) Isotropic (b) Anisotropic				
			(c) Pleochroic (d) None of above				
		(iii)	The deposits formed by the River are called as:				
			(a) Fluvial (b) Lacusterine				
			(c) Aeoline (d) Glacial				
		(iv)	The normal class of cubic system had:				
			(a) 9 plane 13 Axes, centre of Symmetry Present				
			(b) 7 plane 7 Axes, centre of Symmetry Present				
			(c) 5 plane 5 Axes, centre of Symmetry Present				
			(d) 3 plane 3 Axes, centre of Symmetry Present	2			
	(C)	Ans	swer the following in <b>one</b> or <b>two</b> sentences:				
		(i)	What are Polaroids ?				
		(ii)	What is Seismograph?				
		(iii)	) What is Goniometer ?				
		(iv)	Define Hardness.	4			
2.	Exp		the following:				
	(a)		method	4			
	(b)		lal Hypothesis	4			
	(c)	Lit	hosphere and Hydrosphere	4			
	OR						

	(d) Fundamental branches of Geology	4
	(e) Planetesimal Hypothesis	-4
	(f) Potassium-Argon method.	4
3.	Explain the following:	
	(a) Sand-dunes and its type	4
	(b) Pedestal-rock	4
	(c) Meandering and ox-bow lake	4
	OR	
	(d) Delta-deposits	4
	(e) Chemical weathering of rock	4
	(f) Loess-deposit	4
4.	What are Volcanoes? Describe the various products of volcanoes.	12
	OR	
	What are Earthquakes? Describe the construction and working of Seismogram and Se	eismograph. 12
5.	What is Mineral? Describe in detail the various physical properties of mineral warrantees.	ith suitable 12
	OR	
	What is Nicol Prism? Describe in detail the construction and working of Nicol	ol Prism.
		12
6.	Explain the following	
	(a) Symmetry of cube	4
	(b) Goniometer	4
	(c) Axis of Symmetry	4
	OR	
	(d) Law of constancy of interfacial angle	4
	(e) Symmetry characters of Tetragonal System	4
	(f) Crystallographic Axes.	4
7.	Explain the following	
	(a) Significance of geological field work	4
	(b) Scale of Toposheet	4
	(c) Uses and aim of Surveying	4
	OR	
	(d) Chain Survey	4
	(e) Lattitude and longitude	4
	(f) Numbering of Toposheet.	4