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B.Sc. (Part-I) Semester-I Examination

1S: GEOLOGY (NEW)

(General Geology, Physical Geology, Mineralogy, Crystallography and Field Geology)

Time: Three		Hours]		[Maximum Marks : 8	30			
Note :—(1)		All questions are compulsory.						
		(2)	Dra	w neat and well labelled diagram	ıs wh	erever necessary.		
1.	(A)	Fill	l in the blanks:					
		(i)	Study of mineral is called					
(iii) (iv)			Sola	Solar system consists of number of planets.				
				Pot holes are formed by erosion.				
			Pleo	Pleochroism is studied under light. 2				
			ose the correct alternatives :					
(i)		Polarising microscope has						
			(a)	Fixed stage	(b)	Rotating stage		
			(c)	Vertical rotating stage	(d)	Revolving stage		
		(ii)	Neb	oula is :				
			(a)	Rotating cloud	(b)	Solid cloud		
			(c)	Flying cloud	(d)	None of the above		
		(iii)	Med	chanical weathering is called:				
			(a)	Physical weathering	(b)	Chemical weathering		
			(c)	Biological weathering	(d)	Erosional weathering		
		(iv)	Pro	ducts of Volcano include:				
			(a)	Volcanic sand-stone	(b)	Volcanic bomb		
			(c)	Sedimentary rocks	(d)	Metamorphic rocks	2	
(C) An			swer the following in one/two sentences:					
(i)		(i)	What is crystal?					
		(ii)	Wh	at is axis of symmetry?				
		(iii)	Wh	at is seismogram?				
		(iv)	Wh	at is plane polarised light?			4	
2.	Exp	lain	the f	following:				
	(a)	Bra	nche	s of Geology.				
	(b)	Pla	netesimal hypothesis.					
	(c)) Composition of mantle.						
				OR				

	(d)	Rb-Sr method of age determination of meks.	ww.riistrankei.com
	(e)	Crust and mantle.	
	(f)	Nature of core.	12
3.	Des	scribe in detail geological work done by wind.	
		OR	
	Des	scribe in detail geological activity of river.	12
4.	Exp	blain the following:	
	(a)	Epierogeny and orogeny.	
	(b)	Types of volcano.	
	(c)	Measurement of earthquake.	
		OR	
	(d)	Elastic rebound theory.	
	(e)	Product of volcano.	
	(f)	Causes of earthquake.	12
5.	Des	scribe in detail construction and working of petrological microsc	ope.
		OR	
	Wh	nat is form of a mineral? Describe in detail various forms of a	mineral. 12
6.	Exp	plain the following:	
	(a)	Elements of a crystal symmetry.	
	(b)	Symmetry elements of cubic system.	
	(c)	Law of constancy of interfacial angle.	
		OR	
	(d)	Symmetry elements of Hexagonal system.	
	(e)	Parameter system of Weiss.	
	(f)	Contact Goniometer	12
7.	Exp	plain the following:	
	(a)	Toposheet.	
	(b)	Latitude and Longitude.	
	(c)	Signs on Toposheets.	
		OR	
	(d)	Plane table survey.	
	(e)	Clinometer compass.	
	(f)	Dumpy level.	12

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