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

18: GEOLOGY (NEW)

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

Time: Three			Hours]		[Maximum Marks: 80				
Note :(1)			All questions are compulsory.						
		(2)	Drav	Draw neat and well labelled diagrams wherever necessary.					
1.	(A) Fill in the blanks :								
		(i)	Study of mineral is called						
		(ii)	ii) Solar system consists of number of planets.						
		(iii)	Pot	holes are formed by ero	sion.				
		(iv)	Pleo	ochroism is studied under	light		2		
	(B)	Cho	ose t	se the correct alternatives :					
		(i)	Pola	arising microscope has					
			(a)	Fixed stage	(b)	Rotating stage			
			(c)	Vertical rotating stage	(d)	Revolving stage			
		(ii)	Neb	ula 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)	Ans		the following in one/two sente	nces :				
		(i)		at is crystal?					
				at is axis of symmetry?					
				at is seismogram ?					
				at is plane polarised light?			4		
2.	Exp		in the following:						
	(a)								
	(b)			imal hypothesis.					
	(c) Composition of mantle.								
OR									

	Firstranker's choice (d) Rb-Sr method of age deternment-firstRanker.com www.FirstR	anker.com
	(e) Crust and mantle.	
	(f) Nature of core.	12
3.	Describe in detail geological work done by wind.	
	OR	
	Describe in detail geological activity of river.	12
4.	Explain 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.	Describe in detail construction and working of petrological microscope.	
	OR	
	What is form of a mineral? Describe in detail various forms of a mineral.	12
6.	Explain 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.	Explain the following:	
	(a) Toposheet.	
	(b) Latitude and Longitude.	
	(c) Signs on Toposheets.	
	OR	
	(d) Plane table survey.	
	(e) Clinometer compass.	
	(f) Dumpy level.	12