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

1S: 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	w neat and well labelled diagra	ms wh	erever necessary.		
1.	(A)	Fill	in th	e blanks :				
		(i)	Stud	ly of mineral is called				
		(ii)	Solar system consists of number of planets.					
				Pot holes are formed by erosion.				
				Pleochroism is studied under light. 2				
	(B)	Cho	ose the correct alternatives :					
	(i)			Polarising 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	Mechanical weathering is called:				
			(a)	Physical weathering	(b)	Chemical weathering		
			(c)	Biological weathering	(d)	Erosional weathering		
	(iv)		Products of Volcano include:					
			(a)	Volcanic sand-stone	(b)	Volcanic bomb		
			(c)	Sedimentary rocks	(d)	Metamorphic rocks	2	
				wer the following in one/two sentences:				
				What is crystal?				
	18 081		What is axis of symmetry ?					
			i) What is seismogram ?					
		(iv)	Wh	at is plane polarised light?			4	
2.	Explain the following:			following:				
	(a)	Bra	nche	s of Geology.				
	(b)	Plai	netes	imal hypothesis.				
	(c)	Cor	npos	ition of mantle.				
				OR	L			

	(d) Rb-Sr method of age determination of rocks.				
	(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			