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

Time	: Tl	iree l	Hours] [Max	kimum Marks : 80			
Note	:-	(1)	Question No. 1 is compulsory.				
		(2)	Solve total SEVEN questions.				
		(3)	Draw well labelled diagram wherever necessary.				
1.	(A)	Fill in the blanks:					
		(i)	During Crystallization Foreign material caught up within the clear as	crystal are known			
		(ii)	Hornblende show type of extinction.				
		(iii)	The most common rock occurring in Maharashtra state				
		(iv)	Brachial skeleton is a character of phylum	2			
	(B)) Choose the correct answer :					
*		(i)	The mineral that shows darkness throughout the rotation of the stage is called as:	under-cross-nicol			
			(a) Anisotropic				
			(b) Isotropic				
			(c) Pleochroic				
			(d) None of above.				
		(ii)	The Nicol are said to be crossed when two nicols are:				
			(a) Parallel to each other				
			(b) Right angle to each other				
			(c) Oblique to each other				
			(d) None of above				
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		(iii)	Frs I	Ultrabasic igneous rock, the silica content is:				
		(m)	(a)	More than 60%				
			(a) (b)	60–50%				
				Less than 45%				
			(c)	None of above				
		(:)	(d)		-6 -4 :			
		(IV)	Mineral which are produced in the metamorphic rock under the influence of stress is known as:					
				Stress-minerals				
			(a)					
			(b)	Anti-stress-minerals				
			(c)	Brecciated minerals				
	. ~ .		(d)	None of above	2			
	(C)	Answer in ONE or TWO sentence :						
		(i)		at are polaroids?				
		(H)	Wh	at is Becke-line?				
		(iii)	Wh	at is Basic igneous rock?				
		(iv)	Wh	at are foliated rock?	4			
2.	What is Petrological Microscope? Describe in detail the parts and functions of Petrological							
	Mic	rosco	pe.		12			
				OR				
	Wha	at is l	Nicol	I-Prism? Describe the construction and working of Nicol-prism.	12			
3.	Describe the following:							
	(a)	Phy	sical	properties of Muscovite.	4			
	(b)	Opti	ical p	properties of olivine.	4			
	(c)	Mod	ies o	f occurrence of feldspar.	4			
				OR				
	(p) Physical properties of Hornblende			properties of Hornblende	4			
	(q)	Opti	ical p	properties of Augite	4			
	(r)	Mod	le of	occurrence of Garnet.	4			
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4.	Exp	plain the following:					
	(a)	Classification of igneous rock on the basis of colour index	4				
	(b)	Continuous reaction series	.4				
	(c)	Characteristics of Acid igneous rock.	4				
		OR					
	(p)	Tabular classification of igneous rock	4				
	(q)	Discontinuous reaction series	4				
	(r)	Characteristics of Alkaline igneous rock.	. 4				
5.	Describe the following:						
	(a)	Ripple mark	4				
	(b)	Gneissose-structure	4				
	(c)	Conglomerate	4				
		OR .					
	(p)	Graded bedding	4				
	(q)	Schistose-structure	4				
	(r)	Slate.	4				
6.	Exp	Explain the following:					
	(a)	Dentition in Lamellibranchia	4				
	(b)	Suture in Cephalopoda	4				
	(c)	Morphology of Brachiopoda.	4				
		OR					
	(p)	Morphology of Gastropoda	4				
	(q)	Geological history of Lamellibranchia	4				
	(r)	Classification of Brachiopoda.	4				
7.	Des	Describe the classification, geological distribution, lithological characters, fossil content and economical					
	imp	ortance of Vindyan supergroup.	12				
		OR					
	Des	Describe the classification, geological distribution, lithological characters, fossils content and economical					
	imp	ortance of Cuddapah supergroup.	12				

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