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B.Sc. (Part-I) Semester-II Examination GEOLOGY (Old) (Upto Summer-2019)

Time: Three		Hours]		[Maximum Marks: 80		
Note :— (1)		Question No. 1 is compulsory.				
	(2)	Solve	Solve total seven questions.			
	(3)	Draw well labelled diagram wherever necessary.				
1. (A)	Fill	in the blanks:				
	(i)	Twinkling effect is best shown by the mineral under plane polarised light.				
	(ii) Bowen's reaction series is divided into			into	and series.	
	(iii) Suture are the characteristic of Phyllum				1	
	(iv)	The valuable economical mineral diamond occurs in super group. 2				
(B)	Cho	ose th	ose the correct answer:			
	(i) The light vibrates only in one plane called as:					
		(a)	Ordinary light	(b)	Polarised light	
		(c)	White light	(d)	None of above	
(ii)		The rock with higher percentage of felsic minerals are called as:				
		(a)	Leucocratic	(b)	Mesocratic	
		(c)	Melanocratic	(d)	All of above	
(iii)		The common rocks found in Archean super group are :				
		(a)	Igneous Rocks	(b)	Sedimentary Rocks	
		(c)	Metamorphic Rocks	(d)	None of above	
(iv)		The two valves of Brachiopod shell are joined together along a line reffered to as:				
		(a)	Radial line	(b)	Hinge line	
		(c)	Straight line	(d)	None of above 2	
(C)	Ans	swer in one or two sentences:				
(i)		What is pleochroism?				
	(ii)	What	What is reflection and refraction?			
(iii)		What	What are Rain print?			
(iv) What is dextral coiling?					4	
2. Describe the various optical properties of Mineral under plane polarised light					al under plane polarised light.	
OR						
	What is polarising microscope? Describe in detail, the parts and function of polarising microscope.					

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- (b) Optical properties of Hornblende.
- (c) Mode of occurrence of Garnet.

OR

- (p) Physical properties of Muscovite.
- (q) Optical properties of Feldspar.
- (r) Mode of occurrence of Pyroxene.

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- Describe the following:
 - (a) C.I.P.W. classification.
 - (b) Basic Igneous rocks.
 - (c) Discontinuous Reaction series.

OR

- (p) Tabular classification of Igneous rocks.
- (q) Acidic Igneous rock.
- (r) Granite-Granodiorite.

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- Explain the following:
 - (a) Non-clastic texture.
 - (b) Current bedding.
 - (c) Schistose structure.

OR

- (p) Granulose texture.
- (q) Slate.
- (r) Classification of metamorphic rocks.

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- Describe the following:
 - (a) Suture of cephalopods.
 - (b) Classification of Brachiopoda.
 - (c) Geological history of Lamellibranchia.

OR

- (p) Dentition in Lamellibranchia.
- (q) Morphology of Brachiopoda.
- (r) Geological history of Gastropoda.

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Describe the classification, geological distribution, lithological characters, fossil content and economic importance of Vindhyan super-group.

OR

Describe the classification, geological distribution, lithology and fossil content and economic importance of Dharwar-Super group. 12

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