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

## GEOLOGY (New)

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Time: Three	e Hours] [M	laximum Marks: 80
Note :—(1)	ALL questions are compulsory.	
(2)	Draw well labelled diagram wherever necessary.	
1. (A) Fill	in the blanks:	
(i)	Study of rocks is known as	
(ii)	Phase rule is P+F =	
(iii)	are the agents of metamorphic.	
(iv)	Bowen's reaction series is divided into and	series. 2
(B) Cho	pose the correct alternatives :	•
(i)	Plutonic igneous rocks are formed:	
	(a) At great depth	
	(b) At intermediate depth	
	(c) On the surface	
	(d) All of the above	
(ii)	In one component system of augite, the rate of crystallizations:	on is rapid is termed
	(a) Labile region	
	(b) Metastable region	
. •	(c) Uniform region	
	(d) None of the above	
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		(iii)	Cata	aclastic metamorphism is due to :		
			(a)	Temperature		
			(b)	Lateral pressure		
			(c)	Temperature and pressure		
			(d)	None of the above		
		(iv)	The as:	sedimentry rock which shows rounded grains cemented	together	is called
			(a)	Breccia		
			(b)	Conglomerate		
			(c)	Shale		
			(d)	Schistose rock		2
	(C)	Ans	wer	the following in one or two sentences:		
		(i)	Wha	at are schistose structures ?		
		(ii)	Wha	at is phenocryst?		
		(iii)	Wha	at is plutonic metamorphism?		
		(iv)	Wha	at-are meanders?		4
2.	Exp	lain	the f	ollowing:		
	(a)	Mag	gma a	and its composition.		4
	(b)	Disc	corda	nt forms of igneous rock.		4
	(c)	Blo	cky a	and pillow lava.		4
				OR		
	(p)	Equ	igran	ular texture.		4
	(q)	Ext	rusive	e forms of igneous rock.		4
	(r)	Dire	ective	e and intergrowth texture		4
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3.	Des	cribe the following:			
	(a)	Mineralogical classification of igneous rock.	4		
	(b)		4		
	. ,	Continuous reaction series.	4		
	(0)	OR			
	(p)	C.I.P.W. classification.	4		
	(q)	Characters of acidic igneous rock.	4		
	(r)	Discontinuous reaction series.	4		
4	` '		12		
4.	1768	Describe in detail one component system of Quartz.  OR			
	Dac	cribe in detail two component system of plagioclase feldspar, solid solution series	c		
	1768	cribe in detail two component system of pragiociase feldspar, sond solution series	s. 12		
e	3371.	at any anti-partery make 2 Deposits in detail the formation of reducing tory rooks			
5.	WΠ	at are sedimentary rocks? Describe in detail the formation of sedminetary rocks.  OR	14		
	3371.		12		
,		at are textures? Describe the various textures in sedimentary rock.	12		
6.		plain the following:	A		
	(a)		4		
	(b)		4		
	(c)	Thermal metamorphism	4		
		OR			
	(p)	Foliated sedimentary rock	4		
	(q)		4		
	(r)	Agents of metamorphism.	4		
7.		scribe the following:			
	(a)	Deposits of organic origin	4		
	(b)	Metasomatism	4		
	(c)	Limestone	4		
		OR			
	(p)	Autometamorphism	4		
	(q)	Phosphatic deposits	4		
	(r)	Marble.	4		
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