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B.Sc. (Part-III) Semester-V Examination **GEOLOGY**

				(Structural Geology, Plate	rectonic	s and Hydrology)		
Tim	ie : Th	ree I	Iour	s]		[Maximum Marks: 80		
	Note	e :—	(1)	All questions are compulsory.				
			S 58	Draw neat labeled diagrams wh	herever r	necessary.		
1.	(A)	Fill		e blanks :—		2		
		(i)	The	wave passing through solid, liq	uid and	gases is		
		(ii)	Frac	ctures along which no significant	displace	ement takes place is known as		
		(iii)						
			beneath the other is known as					
		(iv)	The	difference in hydraulic head at	two Poi	nts is known as		
(B) Choose the correct alternatives:—						2		
(i) In F				Fold, limbs are dipping towards axis known as:				
			(a)	Anticline	(b)	Syncline		
			(c)	Hinge	(d)	None of the above		
(ii) Distance between two successive crest and trough is:				trough is :				
			(a)	Amplitude	(b)	Wave length		
			(c)	Anticline	(d)	Syncline		
		(iii)	Cor	e and mantle are separated by	:			
			(a)	Mohorovicic discontinuity	(b)	Conrad discontinuity		
			(c)	Guttenberg discontinuity	(d)	Lehman's discontinuity		
		(iv)	The	e least porous and permeable ro	cks are	:		
			(a)	Clay	(b)	Sandstone		
			(c)	Granite	(d)	Limestone		
	(C)	Ans	Answer in ONE sentence :—					
		(1)	Ap	parent Dip	(2)	Isostacy		
		(3)	Co	ntinental drift	(4)	Conductivity. 4		
2.	Exp	lain t	he fo	ollowing:—				
	(a)	a) Outlier and Inlier						
	(b)	Out	terop	and its thickness				
	(c)	Dip	stri	ke of Bed				
				o	R			

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	Firstranker's choice (p) Furth topowww.FirstRanker.com	www.FirstRanker.com				
	(q) Recognation of unconformity in field					
	(r) Brunton compass.	12				
3.	Explain the following:—					
	(a) Isoclinal fold.					
	(b) Significance of joints.					
	(c) Parts of Fold.					
	OR					
	(p) Classification of joints.					
	(q) Causes of folding.					
	(r) Recognation of fold in field.	12				
4.	Describe interior of earth as revealed by seismic wave.					
	OR					
	What is Isostacy and describe in detail various hypotheses.	12				
5.	What is plate tectonics? Describe various types of plate margins.					
	OR					
	What is continental drift? Describe concept of continental drift.	12				
6.	Explain the following :					
	(a) Water cycle					
	(b) Semi-confined aquifer					
	(c) Porosity.					
	OR					
	(p) Water table					
	(q) Confined aquifer					
	(r) Permeability.	12				
7.	Explain the following:—					
	(a) Dary's Law.					
	(b) Cone of Depression.					
	(c) Decean trap province.					
	OR					
	(p) Influent and Affluent seepage.					
	(q) Recharge and discharge.					
	(r) Archean Province.	12				