B.Sc. Part—III (Semester—V) Examination GEOLOGY

				GEO	LOGI				
Time: Three Hours]						[Maximum M	arks : 80		
Note :—(1) A				All questions are compulsory	•				
			(2)	Draw neat sketches wherever	necessa	ry.			
1.	(A)	Fill	in th	e blanks:					
		(i)	Dip	of the bed other than true dip	is called	i			
		(ii)	An	exposed rock body on the surface is called					
		(iii)	The crust and mantle are separated by a discontinuity known as _						
		(iv)	The	he waves generated due to earthquake are known as					
	(B)	Choose the correct alternatives:							
		(i)	Dip	of the bed is a vector quantity					
			(a)	Direction	(b)	Magnitude			
			(c)	Direction and Magnitude	(d)	None of the abo	ove		
		(ii)	Dra	g fold :					
			(a)	Occurs within competent bed					
			(b)	Within incompetent bed					
			(c)	When vertical stresses act on	horizont	al beds			
			(d)	None of the above					
		(iii)	Porc	osity is:					
			(a)	Equal to specific retention					
			(b)	Equal to specific yield					
			(c)	Equal to sum of specific reten	tion and	yield			
			(d)	Less than specific yield					
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	(iv) A large crescent geologically a				etive basin is known as:			
			(a)	Dome		(b)	Geosyncline	
			(c)	Valley		(d)	All of the above	2
	(C)	Answer in one sentence:						
		(i)	Defi	ine Joints.				
		(ii)	Wha	at are Geosyncline?				
		(iii)	Defi	ine Folds.				
		(iv)	Wha	at are Confined Aquifers?				4
2.	Exp	Explain the following:						
	(a)	Dip	and i	its types.				4
	(b)	Ang	ular u	inconformity.				4
	(c)	Outl	ier-In	lier.				4
					OR			
	(p)	Brui	nton o	compass.				4
	(q)	Offla	ap-Oı	nlap.				4
	(r)	Outo	crops	and its dimension.				4
3.	Writ	rite in brief on the following:						
	(a)	Sign	ificar	nce of joints.				4
	(b)	Geor	metri	cal classification of joints.				4
	(c)	Recu	ımbe	nt fold.				4
					OR			
	(p)	Sym	metri	cal folds.				4
	(q)	Reco	gniti	on of the folds in the field.				4
	(r)	Caus	ses of	folding.				4
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4.	Giv	re an account of the Interior of the Eart	h with reference to Seismic Waves.	12			
			OR				
	Wh	at is an Isostasy ? Discuss any two hyp	oothesis which explain the Isostasy.	12			
5.	Discuss the following:						
	(a)	Types of plate margins.		4			
	(b)	Paleomagnetism.		4			
	(c)	Evidences of continental drift.		4			
			OR				
	(p)	Causes of plate tectonics.		4			
	(q)	Seafloor spreading.		4			
	(r)	Continent-continent Collision.		4			
6.	Explain the following:						
	(a)	Vertical distribution of ground water.		4			
	(b)	Permeability.		4			
	(c)	Confined aquifer.		4			
			OR				
	(p)	Hydrologic cycle.		4			
	(q)	Water table.		4			
	(r)	Unconfined aquifer.		4			
7.	Dis	cuss the Darcy's Law with its utility.		12			
			OR				
	Giv	e an account of groundwater provinces	of India.	12			

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