B.Sc. Part—III Semester-V Examination 58 : GEOLOGY

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Time: Th	ree	Hours] [Maximum Marks :	80
Note :—(1	1) A	ALL questions are compulsory.	
(2	2) D	Draw neat sketches wherever necessary.	
1. (A) F	Fill	in the blanks:	
((i)	The unconformity in which, the beds on either side of unconformity are not paral is called	lel
((ii)	Crust and mantle boundary occures at the depth	
((iii)	The type of fold in which axis is almost inclined is called	
((iv)	The concept of continental drift was proposed for the first time	2
(B) C	Cho	ose correct alternatives :	
((i)	The fold in which, limbs are essentially dipping in the same direction with samangle of dip are	ne
		(a) Recumbent Fold	
		(b) Drag Fold	
		(c) Overturned Fold	
		(d) Isoclinal Fold.	
(ii)	Airy's model of compensation is based on:	
		(a) Different density with different height	
		(b) Same density with different height	
		(c) Density increases with the depth	
		(d) All of above.	
(i	iii)	The cyclic movement of water in atmosphere and Earth is called:	
		(a) Rock cycle	
		(b) Hydrologic cycle	
		(c) Ground water movement	
		(d) All of the above.	
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	(iv) Shear joints are formed by:	
	(a) Tensional stresses	
	(b) Shearing stresses	
	(c) Cooling of magma	
	(d) None of above.	2
	(C) Answer in one sentence:	
	(a) What is unconformity?	
	(b) Define Porosity.	
	(c) What is isostatic equilibrium?	
	(d) What is continental drifting ?	۷
2.	Explain the following:	
	(a) Clinometer compass	4
	(b) Outlier-Inlier	4
	(c) Angular unconformity	4
	OR	
	(d) Outcrop and width of outcrop.	4
	(e) Windows and Klippe	4
	(f) Dip and its type.	4
3.	What are Folds? Describe the classification of fold.	12
	OR	
	Define Joint. Describe the classification of Joints.	12
4.	What are seismic waves? Describe the Interior of Earth on the basis of seis evidences.	mologica 12
	OR	
	Define Isostasy. Explain the Pratt's and Airy's hypothesis, add a note on their misunda about isostasy.	erstanding 12
5.	Explain the following:	
	(a) Divergent plate boundary.	4
	(b) Sea-floor spreading	4
	(c) Geometric fitting of the continents together.	4
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	(d)	Convergent plate boundry	4
	(e)	Mid-oceanic ridges	4
	(f)	Paleomagnetism.	4
6.	Exp	plain the following:	
	(a)	Hydrological cycle	4
	(b)	Water-table	4
	(c)	Porosity and permeability.	4
		OR	
	(d)	Confined and unconfined aquifer	4
	(e)	Storage coefficient and conductivity	4
	(f)	Vertical distribution of ground-water.	4
7.	Des	cribe the following:	
	(a)	Recharge and discharge	4
	(b)	Cone of depression	4
	(c)	Gondwana ground water province.	4
		OR	
	(d)	Darcy's law	4
	(e)	Himalayan high land province	4
	(f)	Types of seepages.	4

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