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B.Sc. (Part—II) Semester—IV Examination GEOLOGY (New)

(Structural Geology, Tectonics and Geomorphology)

Time: Three Hours	1		[Maximum Ma	rks : 80
N.B. :- (1) ALL	the questions are compulsory.			
(2) Draw	well labelled diagram wherever	er necessa	ry.	
1. (A) Fill in the	Fill in the blanks: (i) Undulation or curve developed in the rock body are known as			
(i) Undu				
(ii) In	drainage pattern develop	ps in terra	in containing tilled rock b	eds and
parall	el faults.			
(iii) Divisi	ional planes or fractures along v	which there	e has been no relative displ	acement
are ca	alled			
(iv) The c	concept of continental drift was	proposed	i by in 1910.	2
	Choose the correct alternatives :			
(i) A syn	(i) A symmetrical fold :			
(a) T	(a) Two limbs dip at different angles but in opposite direction(b) Two limbs dip at same angle but in opposite direction			
(b) T				
(c) Two limbs dip at different angle but different direction				
(d) Two limbs dip at different angle but same direction			e direction	
(ii) Disco	onformity is also called as :			
(a) I	ocal Unconformity	(b)	Blended Unconformity	
(c) I	Parallel Unconformity	(d)	Structural Unconformity	
(iii) Whiel	h among the following is not p	part of fau	ilt ?	
(a) I	lead and heave	(b)	Throw	
(c) I	Head and throw	(d)	Hingle and limbs	
(iv) Aeoli	an deposits are associated with	1:		
(a) (Glaciers	(b)	Wind	
(c) I	Deserts	(d)	River	2
(C) Answer in	one or two sentences:			
(i) What	is foliation ?			
(ii) What	is tensional joint ?			
(iii) What	is bifurcation ratio ?			
(iv) What	is reverse fault ?			4
Explain the fol	xplain the following:			
(A) Angular u	nconformity			4
(B) Onlap and	oillap			4
(C) Dip and s	trike			4
	OR			
(P) Outcrop				4
	on of unconformity			4
(R) Outlier an	d inlier.			4
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OR

	What is Strain and Stress? Describe the interrelationship of stress, strain and defo	rmation.
4.	Explain the following:	
	(A) Causes of folding	4
	(B) Normal fault	4
	(C) Classification of joints	4
	OR	
	(P) Isoclinal folds	4
	(Q) Significance of joint	4
	(R) Parts of fault.	4
5.	What is geosyncline? Describe in detail classification and its importance.	12
	OR	
	Describe in detail the plate tectonic theory.	12
6.	Explain the following:	
	(A) Endogenic process	4
	(B) Radial drainage pattern	4
	(C) Drainage frequency	4
	OR	
	(P) Fluvial cycle	4
	(Q) Dendritic drainage pattern	4
	(R) Scope and aim of geomorphology.	4
7.	Explain the following:	
	(A) Glacial landforms	4
	(B) Soil profile	4
	(C) Delta formation	4
	OR	
	(P) Karst topography	4
	(Q) Alluvial fans and cones	4
	(R) Tools of geomorphologist.	4

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