AP-494

B.Sc. Part-III (Semester-V) Examination 5S: GEOLOGY

Time: Three Hours	[Maximum Marks: 80				
	All questions are compulsory. Draw neat sketches wherever necessary.				
1. (A) Fill in the					
(i) The lower continental crust is known as					
(ii) According to Wegner, the pangea was surround by universal ocean named as					
(iii) Coli	umnar joints are found in rock.				
(iv)	_ is extensively used for ground water oration. 2				
(B) Choose the correct alternatives.					
(i) Disc	conformity is also called as:				
(a)	Parallel Unconfirmity				
(b),	Local Unconformity				
(c)	Blended Unconformity				
(d)	Non-conformity.				
UWO-45333	1 (Contd.)				

(i	The term isostacy was first intro	duced by:	7. Des	scribe the following:		
	(a) Airy		(A)	Darcy's Law.		
	(b) Pratt		(B)	Gondwana provinces.	,	,
	(c) Dutton			Influent seepage.		
	(d) Heisskinnan			OR	<u>.</u>	
(iii) The continental drift refers to which	movement:	(P)	Cone of depression.		Z
	(a) Inclined		(Q)	Recharge and discharge	ge.	
	(b) Vertical			Alluvial province.	-	
	(c) Horizontal			· .		123
	(d) None of these				•	
(iv) In Recumbent fold the axial plane is	essentially:				-
	(a) Horizontal		•			
	(b) Vertical	1				
	(c) Inclined					
	(d) All of the above.	2				
(C) An	swer in only one sentence:				,	
(i)	What is an Unconformity?					٠
(ii)	Define the aquifer.					
UWO-45333	2	(Contd.)	UWO-4533	5		325

www.sgbauonline.com

4	(iii) What are influent streams?	
	(iv) Define the Darcy's Law.	į
2.	Describe the following:	
	(A) Recognition of an unconformity in the field.	4
	(B) Out-lier and Inlier.	
	(C) Construction of Clinometer compass.	4
	OR	
	(P) Onlap and Offlap.	4
	(Q) Dip and Strike of a bed.	.4
	(R) Outcrop in relation to topography.	4
3.	Give an account of types of fold with examples.	12
	OR	
	Discuss the geometrical and genetic classification of and give the significance of joints.	joint 12
4.	Give a brief account of interior of the Earth on the of seismological evidences.	basi 12
	OR	
	Discuss various theories in favour of Isostacy in de	etail 12
UWO)—45333 3 (Co	ntd.)

www.sgbauonline.com

5.	Explain the following:	
	(A) Causes of plate tectonic.	4
	(B) Palaeo magnetism.	4
	(C) Evidences in support of continenta	l drift. 4
	OR	
	(P) Sea floor spreading.	4
	(Q) Types of Plates.	A
	(R) Wegener's Continental drift hypoth	nesis. 4
6.	Explain the following:	
	(A) Hydrologic cycle	4
	(B) Water-table	4
	(C) Porosity.	4
	OR .	
	(P) Distribution of Ground Water.	4
Þ	(Q) Permeability.	4
	(R) Unconfined aquifer.	4
* 25**		(Cained
UW	D—45333 4	(Contd.)