Reg. No.:					

(d) None of these

Question Paper Code: 43103

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Third Semester

Civil Engineering

14UCE303 - ENGINEERING GEOLOGY

		(Regulation	n 2014)				
Du	ration: Three hours			Maximum: 100 Marks			
		Answer ALL	Questions				
	I	PART A - (10 x 1	1 = 10 Marks				
1.	Mohorovicic discontinuity s	separates					
	(a) Core and mantle		(b) Crust and mantle				
	(c) Inner core and outer	core	(d) Sima and nife				
2.	Chemical weathering is me	ost prominent in					
	(a) Arid region		(b) Semi-arid region				
	(c) Humid tropical region	on	(d) Mediterranean region				
3. Which mineral is used for generating atomic or nuclear power							
	(a) Coal (b)	Bauxite	(c) Uranium	(d) Copper			
4.	What is the hardness of Qua	artz?					
	(a) 1	(b) 7	(c) 6	(d) 5			
5.	Factor affecting metamorph	ism are					
	(a) Temperature and Pro	essure	(b) Moisture and Air				
	(c) Weathering		(d) None of these				
6.	Which one of them is used to	for architecture w	vork?				

(b) Shale

(a) Limestone

(c) Marble

7.	The am	nount of ground o	displacement in a ear	rthqua	ke is call	ed the		
	(a)	epicenter	(b) dip	(c)	slip	(d) focus		
8.	Anticli	nes						
	(b) (c)			•	ation			
9.	Fossils	are most commo	on in which rock typ	es				
	(a) Sedimentary rocks(c) Metamorphic rocks				(b) Igneous rocks(d) Silicious rocks			
10.	The ref	ractive index of	the ocean water is					
	(a) Increases with salinity (b) Increases with temperature (c) Decreases with temperature (d) Decreases with salinity				-			
			PART - B (5 x 2	2 = 10	Marks)			
11.	Define	focus and epicer	nter in earthquake.					
12.	Disting	uished between	amphibole and pyrox	xene g	group.			
13.	Define	Magma and Lav	a.					
14.	What a	re the criteria for	r the recognition of a	a fault	?			
15.	List ou	t the applications	s of remote sensing.					
			PART - C (5 x 1	6 = 80) Marks)			
16.	(a) Wr	rite about the geo	ological work of wind	d and	their engi	neering consideration.	(16)	
			Or	•				
	(b) (i)	Define weather	ing and factor affect	ing w	eathering		(8)	
	(ii)	Describe in det	ail about plate tector	nics			(8)	
17.			us physical properti for each of the prope		minerals	and give examples fro	om the (16)	
			Or	•				
	(b) Co	mpare and contra	ast the minerals of P	yroxe	ne group	to that of Amphibole gro	oup. (16)	

18.	(a)	Distinguish igneous, sedimentary and metamorphic rock.					
		Or					
	(b)	Explain briefly about factors and effects metamorphism.	(16)				
19.	(a)	Describe in brief about the various classification of fold with neat sketch.	(16)				
		Or					
	(b)	Explain in detail the role of electrical methods of sub-surface investigation engineering practice.	in civil (16)				
20.	(a)	Explain the geological requirements which will have to be investigated for a site for a tunnel.	selecting (16)				
	Or						
		(b) (i) Write the application of remote sensing in civil engineering.	(8)				
		(ii) List out the causes and prevention for landslides.	(8)				