Reg. No.:					

(c) jointing

(d) dip

Question Paper Code: 43103

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Third Semester

		Cıvıl Eı	ngineering			
	14	UCE303 - ENGIN	NEERING GEOLOGY			
		(Regula	ation 2014)			
Duration: Three hours Answer ALL Questions			LL Questions	Maximum: 100 Marks		
		PART A - (10	x 1 = 10 Marks)			
1. Abrasion by the river is related to which of the following process						
	(a) transportation	(b) erosion	(c) deposition	(d) disintegration		
2. The place where movement occurs in a crustal plate that triggers an earthquake is called						
	(a) focus	(b) epicenter	(c) dip	(d) strike		
3. Which of the following mineral has the lowest hardness						
	(a) fluorite	(b) topaz	(c) gypsum	(d) quartz		
4.	What is the hardness of	Quartz?				
	(a) 1	(b) 7	(c) 6	(d) 5		
5.	Factor affecting metam	orphism are				
	(a) Temperature an(c) Weathering	(a) Temperature and Pressure (b) Moistur (c) Weathering (d) None of				
6.	Which one of them is used for architecture work?					
	(a) Limestone	(b) Shale	(c) Marble	(d) None of these		
7.	Repetition of beds on a	a geological map r	nay be due to			

(a) folding

(b) faulting

8.	Symmetrical fold is categorized on the basis of	1	
	(a) axial plane and limb (c) hinge of fold	(b) axis of fold(d) limb of fold only	
9.	Arrangement of aerial photograph referred as		
	(a) aerial mosaic(c) horizontal photograph	(b) tilted photograph(d) spatial signature	
10.	The refractive index of the ocean water is		
	(a) Increases with salinity(c) Decreases with temperature	(b) Increases with temperatur(d) Decreases with salinity	re
	PART - B (5 x 2 =	: 10 Marks)	
11.	Define the term continental shelf.		
12.	What is meant by fluorescence? Give an exam	ple.	
13.	What are the agents of metamorphism?		
14.	What do you mean by true dip?		
15.	Distinguish between aerial photography and in	nageries.	
	PART - C (5 x 16 =	= 80 Marks)	
16.	(a) Give an account of the internal structure a	nd composition of the earth.	(16)
	Or		
	(b) (i) Define weathering and factor affecting	g weathering.	(8)
	(ii) Describe in detail about plate tectonic	S	(8)
17.	(a) (i) Explain about any four physical prope	erties of minerals.	(8)
	(ii) Write a short note on atomic structure	of silicate group.	(8)
	Or		
	(b) Compare and contrast the minerals of Pyro	oxene group to that of Amphibolo	e group. (16)

18.	(b)	Writes notes on origin, mineralogy and uses of the following rocks					
		(i) Granite	(ii) Limestone	(iii) Shale		(16)	
			Or				
	(b)	Explain briefly above	ut factors and effects meta	amorphism.		(16)	
19.	(a)	Describe in brief ab	out the various classificat	ion of fold with no	eat sketch.	(16)	
			Or				
	(b)		nner and Schlumberger engineering investigation.	•	electrical	resistivity (16)	
20.	(a)	•	and discuss about the cause the measures for mitigati Or		ndslides.	(16)	
	(b)	(i) Write the applie	cation of remote sensing i	n civil engineering	<u>.</u>	(8)	
		(ii) List out the cau	ses and prevention for lan	idslides.		(8)	