A
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1 B

Reg. No.:					

Question Paper Code: 53102

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

Third Semester

Civil Engineering

15UCE302 -ENGINEERING GEOLOGY AND CONSTRUCTION MATERIALS

(Regulation 2015)

		(1cogulatio	ni 2013)				
Dura	ation: Three hours			Maximum: 100 M	larks		
		Answer ALL	Questions				
		PART A - (10 x	1 = 10 Marks)				
1.	. Name the types of rocks which deposit and accumulate minerals in the strata's						
	(a) Igneous rocks	(b) Metamorphic rocks	(c) Sedimentary roc	eks (d) Soft roc	ks		
2.	The study about 1	movement of Earth plate is	called	(CO1- R		
	(a) Lithification	(b) Continental drift	(c) Plate tectonics	(d) Plate stratific	cation		
3.	. Bedded structure exists in which of the following rocks						
	(a) Sedimentary	(b) Extensive igneous	(c) Metamorphic	(d) Intensive ign	ieous		
4.	Which of the following is Coarse grained Igneous rock						
	(a) Pegmatite	(b) Quartzite	(c) Shale	(d) State			
5.	A good quality stone must absorb water less than						
	(a) 2.5%	(b) 5%	(c) 10%	(d) 15%			
6.	The colour of the	brick is due to		(CO3- R		
	(a) Iron oxide	(b) Silica	(c) Magnesia	(d) Alumin	ıa		
7.	Initial setting time	e of Cement is		(CO4- R		
	(a) 10 minutes	(b) 30 minutes	(c) 50 minutes	(d) 40 minu	ites		
8.	Falkiness index te	st is done for		(CO4- R		
	(a) Sand	(b) Rocks	(c) Coarse aggregates	(d) Cement			

9.	Whi	ich of the follo	(CO5- R					
	(a) S	Sal	(b) Oak	(c) De	odar	(d) Mahogany			
10.	Wha	at is the life tim	r	CO5- R					
	(a) 1	1-5 Years	(b) 5-15 Years	(c)10-	15 Years	(d) 5-10 Years			
			PART – B	$(5 \times 2 = 10 \text{M})$	larks)				
11.	Hov	v will you disti	nguish Joint from Fa	ult		CO	1- Ana		
12.	Enu	merate any thro	ee types of rocks.			CO2- U			
13.	List	any four chara	CO3- U						
14.	Nan	ne any two test	CO4- R						
15.	List the various common defects found in Timber.						CO5- U		
			PART –	C (5 x 16= 8	30Marks)				
16.	(a)	Summarize throcks	ne classification of Iş		and Metamorphic	CO1- U	(16)		
			Or						
	(b)	Write the phy	sical properties of fo	llowing mine	erals	CO1- U	(16)		
		(i) Conglome							
		(ii) Limestone							
		(iii) Schist							
		(iv) Marble							
17.	(a)	Explain the i	nterior structure of ches.	the Earth an	nd its composition	CO2- U	(16)		
			Or						
	(b)	Describe the	various types of Faul	ts with neat	sketches.	CO2- U	(16)		
18.	(a)	What are the	tests conducted on sto Or	_	n any one in detail.	CO3- U	(16)		
	(b)	Describe the diagram.	method of manufa	acturing of	bricks with neat	CO3- U	(16)		

19. (a) Discuss the manufacturing process of Cement with flow diagram CO4- U (16)and sketches.. Or (b) Write the procedure for following tests (8) CO4- U (i) Compressive strength of cement (ii) Crushing strength of coarse aggregates. CO4- U (8) 20. (a) List the varieties of Industrial Timber available in market. CO5-U (16)Explain any one in detail. Or

(b) Discuss the manufacturing process of Steel with flow diagram.

CO5- U

(16)