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Reg. No.:					

Question Paper Code: 53102

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

Third Semester

Civil Engineering

15UCE302 -ENGINEERING GEOLOGY AND CONSTRUCTION MATERIALS

(Regulations 2015)

		(Regulatio	113 2013)					
Dura	ation: Three hours	A A I I		Maximum: 100	Marks			
		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 roo	eks (d) Soft ro	ocks			
2.	. The study about movement of Earth plate is called							
	(a) Lithification	(b) Continental drift	(c) Plate tectonics	(d) Plate stratif	fication			
3.	Bedded structure exists in which of the following rocks							
	(a) Sedimentary	(b) Extensive igneous	(c) Metamorphic	(d) Intensive ig	gneous			
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							
	(a) Iron oxide	(b) Silica	(c) Magnesia	(d) Alum	ina			
7.	Initial setting time	e of Cement is			CO4- R			
	(a) 10 minutes	(b) 30 minutes	(c) 50 minutes	(d) 40 mir	nutes			
8.	Falkiness index te	est is done for			CO4- R			
	(a) Sand	(b) Rocks	(c) Coarse aggregates	(d) Cemer	nt			

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	CO5- R						
	(a) 1-5 Years (b) 5-15 Years (c)10- 15 Years			15 Years	(d) 5-10 Years				
			PART – B	$(5 \times 2 = 10)$	larks)				
11.	Hov	v will you disti	nguish Joint from Fa	ult		CO1- Ana			
12.	Enu	merate any thre	ee types of rocks.			CO2- U			
13.	List any four characteristics of a good brick.						CO3- U		
14.	Name any two test conducted in stone aggregates.						CO4- R		
15.	List	the various co		CO5- U					
			PART –	C (5 x 16= 8	80Marks)				
16.	(a)	Summarize throcks	ne classification of Ig		and Metamorphic	CO1- U	(16)		
			Or						
	(b)	Write the phy	CO1- U	(16)					
		(i) Conglome							
		(ii) Limestone	•						
		(iii) Schist							
		(iv) Marble							
17.	(a)	Explain the i	nterior structure of tches.	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)