С		Reg. No. :										
	Question Paper Code:R1104											
B.E./B.Tech. DEGREE EXAMINATION, NOV/DEC 2024												
First Semester												
Civil Engineering												
R21UCE104 - ENGINEERING GEOLOGY AND CONSTRUCTION MATERIALS												
(Regulations R2021)												
Dura	ation: Three hours						Μ	axin	num:	100	Mar	ks
Answer All Questions												
PART A - $(5x 1 = 5 Marks)$												
1.	Clinometers is used for determine the									CO	1- U	
	(a) levels (b) get	ological mappin	ig and su	rveying	(c) d	istan	nce	(d)	ang	les		
2.	Hardness value of Mi	crocline is,									CO	1- U
	(a) 6 to 6.5	(b) 7 to 8	(c) 6	to 6.9		(d)	6 to	8				
3.	The process of kneading brick earth is called CO1- U								1- U			
	(a) Pugging	(b) Blending		(c) Ran	nming			(d) 7	Гатј	oing		
4.	Le chateliers apparatus is used to carry out CO1							1- U				
	(a) soundness test	(b) consistency	test (c) comp	ressive	stre	ngth	(d) ten	sile	stren	gth
5.	The steel used in RCC	C work is									CO	1 - U
	(a) stainless steel	(b) mild steel	(c) hi	gh carbo	on steel		(d) w	roug	ht ir	on		
PART - B (5 x 3 = 15 Marks)												
6.	Differentiate focus and epicenter							CO	1- U			
7.	Describe a brief note on stratification.							CO	1- U			
8.	Analyzing the characteristics of good building stone							CO	1- U			
9.	What is meant by hydration of cement?							CO	1- U			
10.	When and where distemper is used?							CO	1- U			

		$PART - C (5 \times 16 = 80 \text{ Marks})$		
11.	(a)	Explain the forms of Igneous Rocks with neat sketch	CO1- U	(16)
	(b)	Explain the formation of sedimentary rock and in engineering applications.	CO1- U	(16)
12.	(a)	Give a detail note on internal structure of earth with neat diagram	CO1- U	(16)
	(b)	List and discuss in detail about the classification of joints.	CO1- U	(16)
13.	(a)	Explain any four testing of bricks	CO1- U	(16)
	(b)	Enumerate the characteristics to be considered for selection of stones for civil engineering works.	CO1- U	(16)
14.	(a)	Explain the Wet and dry method of manufacturing of cement	CO2- App	(16)
	(b)	Experiment with the list of testing on cement a. Compressive strength b. tensile strength c. fineness d. soundness	CO2- App	(16)
15.	(a)	List the various method of seasoning of timber.	CO1- U	(16)

(b) Explain about the geomembranes and geotextiles for earth CO1-U (16) reinforcement