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Re	g. No. :			

Question Paper Code: U3102

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

		Third	Semester			
		Civil Er	ngineering			
	21UCE302- ENG	INEERING GEOLOG	Y AND CONSTRUCTION	N MATERIA	LS	
		(Regular	tions 2021)			
Duration: Three hours Ma				aximum: 100 Marks		
		Answer Al	LL Questions			
		PART A - (5	x 1 = 5 Marks			
1.	Specific gravity of C	Quartz is,			CO1- U	
	(a) 3.15	(b) 2.65	(c) 2.85	(d) 3.71		
2.	2. The point of origin of earthquake within the earth's crust is called					
	(a) focus	(b) epicenter	(c) isoseismal lines	(d) none of	the above	
3.	The number of stan masonry is	dard bricks required fo	or one cubic metre of brick	S	CO1- U	
	(a) 400	(b) 500	(c) 750	(d) 250		
4.	The initial setting time of ordinary Portland cement should not be less than					
	(a) 15 minutes	(b) 30 minutes	(c) 45 minutes	(d) one hou	ır	
5.	The moisture conter		CO1- U			
	(a) 25%	(b)30%	(c) 20%	(d) 35%		
		PART – B (5	x 3= 15 Marks)			
6.	Describe a brief not		CO1- U			
7.	What is mean by Pe		CO1- U			

What is meant by efflorescence? 8. CO1-U

What is meant by hydration of cement? 9. CO1- U

10. When and where distemper is used? CO2- App

$PART - C (5 \times 16 = 80 Marks)$

Explain in detail about the formation of rocks and its engineering CO1-U 11. (a) (16)importance. Or (b) Explain physical and chemical weathering process in detail. Add a CO1-U (16)note on weathering grade and its engineering significance. 12. (a) Mention the concept of plate tectonics and describe how CO1-U (16)earthquakes occur. Add a note on the distribution of earthquake in the world and in India. Or Explain composition of the earth structure with neat diagram CO1-U (16)13. (a) Illustrate the different tests conducted on stones? Explain in detail CO2- App (16)with neat sketches. Or (b) Describe with neat sketches the manufacturing process of CO2-App (16)conventional bricks. Construct a flow diagram for dry and wet process of manufacture of CO2- App 14. (a) (16)cement with brief explanation Or (b) Enumerate the methods of preparation of lime mortar. Describe ay CO2- App (16)two major tests to determine the quality of lime. List and explain the various methods of seasoning of timber. CO1-U 15. (a) (16)

(b) Write a brief note on mechanical and heat treatment of steel?

CO1-U

(16)