Q.P. Code: 19CE0117										R19				
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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR														D
(AUTONOMOUS)														ĸ
B.Tech III Year I Semester Regular Examinations December-2021														
				GI	EOTE	CHN	ICAL	ENG	INEE	RINC	T T			
(Civil Engineering)														
										Max. N	Aarks: 60			
(Answer all Five Units $5 \times 12 = 60$ Marks) UNIT-I														
1	Explain the p	proces	s of s	oil forn	nation	by we	eatheri	ing in	detail				L2	12M
.2	o White al	ut rect	0.011	nd D			OF	8						
- 4										ition	of ocorr	L1 se L2	6M	
	b Explain in detail the laboratory method for particle size distribution of coar grained soils by dry sieve analysis.										JI COals		6 M	
			2		0		UNIT	II-						
3	Describe the	Stand	ard P	roctor	test a	nd mo	dified	Proct	or tes	t to be	e conc	lucted i	in L2	12M
	the laborator	у.												
							OF	R						
4	a Define pro					maalia	lation					100	L2	6M
	b Draw the graph representing preconsolidation pressure.											L2	6M	
5	UNIT-III Explain vertical stress under line load, strip load, circular load and rectangular area with neat sketch.												ar L1	12M
	OR													
6	Develop an expression for the vertical stress at a point due to a point load, using Boussinesq's theory.												lg L2	12M
UNIT-IV														
7	Derive the ex	pressi	on fo	r stabil	ity ana	alysis	of infi OR		ope o	f cohe	sive s	oils.	L2	12M
8	A canal is to be excavated through a soil with $c = 15 \text{ KN/m2}$, $\Phi = 20 \text{ o}$, $e = 0.9$ and $G = 2.67$. The side slope is 1 in 1. The depth of the canal is 6 m. determine the factor of safety with respect to cohesion when the canal runs full. What will be the factor of safety if the canal is rapidly emptied?												e	12M
		or build	ly II	the call			UNIT	Concerning and the second						
9	Describe with a neat sketch how will you carry out the wash boring method of soil exploration.												of L2	12M
10	E1-2 2 1				TP		OR							
10	Explain in de	tail ho	w pla	ite load	Test	is cond	ducted	1 with	neat s	ketch.			L2	12M
						**	* ENI) ***						

*** END ***