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		Regi	stration No :							
	Total	Num	ber of Pages : 02				B.T PCI7	ech.		
10	Δne	210		Time Max M Q.CO	VEMENT TECH CH : CIVIL : 3 Hours Marks : 100 DE : E034	HNIQUE	210	210		
0	Alis	210	010		n Part-III.	010	210	210		
			The light	-	U	iuicale marks.				
	Q1	a) b) c)	Short Answer Type Define and explain C Explain what you me Show the differences	Questions (Ans) ollapse potential of an by depth of ac	of a soil. tive zone.	ins.	(2	x 10)		
10		d) ₁₀ e) f) g) h)	What are the advanta State the most import in a soft clay deposit. An SPT blow count N What is a land fill? What do you mean be earthquake forces?	rtant property req	uired for decidin r which type of s	oil?		210		
0		i) j) ₂₁₀	What is the cement c Name a few waste m				210	210		
	Q2	a)	Focused-Short Ans What is the necessi	wer Type Questi ty of compaction				x 8)		
		b)	stabilization of a soil. Distinguish between at ground surface and	methods of impac d at depth.		-				
10		c) ²¹⁰ d)	What do you mean b Discuss the use of sa A 20 m diameter tan The ground water ta was 22 MPa. Estimat	and drains and sa k exerts a pressuble is at the sur	nd wicks for the pure of 150 kPa c	purpose. ²¹⁰ on a 6 m thick lay	er of sand.	210		
		e)	Using 300 mm diam pressure increase of corresponding Young	eter plate, additio f 80 kPa. Calcula j's modulus.	ate the coefficie	nt of subgrade re	action and			
0		f) 210 g)	What are various dewatering techniques which are generally used for ground improvement? ^O Discuss in brief. ^O 210 210 210 210 210 210 210 210 210 210							
		h) i)	permeation grouting? Calculate the transm flow rate per unit wid How stone columns h	P Discuss various hissivity of a geo- th, q = 0.70 x 10 ⁻⁴	applications of g -net using the fo m ² /sec and hydr	routing. bllowing laboratory raulic gradient, i =	/ test_data: 0.05.			
10		210	210	210	210	210	210	210		

210		210	210	210	210	210	210		210
		j) k)	List and discuss fou engineering applicatio Discuss the use of a	ns.					
			loads.						
210		I) 210	What measures you v soft soil and a collapsi			210 210	210 Sive soll, a		210
					art-III				
	Q3		Long Answer Type C What is the necessi Discuss the ways an compaction control tes tests are resorted to?	ty of compaction nd means for lin sts in detail. Whe	? How does ne stabilization	it differ from con of a soil. Discu	ss various	(16)	
210	Q4	210	A soil profile ¹ has an average natural moist respectively. Determin you start construction Explain in brief.	ure content during the free surface	the constructions the swell. What m	on season are 54% neasures you will t	% and 20% ake before	(16)	210
210	Q5	210	Enumerate various techniques? What is a are generally taken in properties? Differentia tests conducted on the Calculate the transmis (i) Flow rate per unit (ii) Hydraulic gradient	a geo-net? What a nto consideration ate between trans e geo-textiles befo sivity of a geo net width, q = 0.72X 1	are various pro before their u missivity and p re their use? t using the follow	perties of a geo-te se? What are the ermittivity? What a	extile which desirable are various	(16)	210
210	Q6	210	How do you estimate earthquake drains and					(16)	210

210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210