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	I No. of Questions :	08	Total No. of Pag	jes : 02
	•	•		,
Time: 3 Hrs.			Max. Marks: 100	
INS 1. 2.	TRUCTION TO CANDID Attempt any FIVE ques Each question carries	tions in all, out of	f EIGHT questions.	
Q1	,	0 0	retaining wall (with saturated bac einforcement of each component o	,
	b) What do you mean be reclamation.	by Land Reclamation	on? Discuss in briefs the method	s for land (8)
Q2	a) How does the structura differ? Explain.	al design of rectangu	ular combined footing and Trapezoid	dal footing (10)
			olution is more appropriate-Bouss involved in Westergaard's theory.	
Q3	a) Discuss in detail about	'Reese and Matlock	Approach' for laterally loaded piles	s. (12)
	b) What are the limitation	s of Dynamic Pile lo	oad formulae?	(8)
Q4	a) Comment on the behave in terms of group effici		es in sand as compared to that of a s	single pile, (10)
	b) What are Batter piles?	Under what circums	tances, these are used?	(10)
Q5	a) Show the different co Explain briefly their fu		l foundation with the help of a no	eat sketch. (12)
	b) What considerations go	overn the fixing of the	ne depth of a well foundation?	(8)

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- Q6 a) Discuss the procedure to compute four basic soil spring constants used in analysis of foundations subjected to dynamic loads. (10)
 - b) Explain Pauw's Analogy in reference to machine foundations. (10)
- Q7 a) Explain application of Tshebotarioff's method in Geotechnical engineering. (10)
 - b) Sketch the mode of deflection, distribution of lateral pressure and bending moment diagrams for various types of sheet pile walls. (10)
- Q8 Write short notes on:
 - a) Site Investigations. (10)
 - b) Negative Skin Friction. (10)

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