Tota	l No.	of Questions: 12] SEAT No.:	
P19	13	[Total	No. of Pages : 2
		[5254]-8	
		B.E. (Civil)	
		AD. GEOTECH. ENGG.	
		(2008 Pattern) (Elective - I)	
Time	e:3 E		x. Marks : 100
	1) 2) 3) 4) 5) 6)	Answer three questions from section - I and three questions from Answers to the two sections should be written in separate by Neat diagrams must be drawn wherever necessary. Your answers will be valued as a whole. Use of electronic pocket calculator is allowed. & IS codes at Assume suitable data, if necessary.	oks.
		SECTION - I	
Q1)	Disc	cuss different soil classifications.	[16]
		OR	
<i>Q2)</i>	a)	Explain 'montmorillonite' & 'DDI'.	[8]
	b)	Explain 'A-line chart', with sample graph.	[8]
<i>Q3</i>)	a)	Explain 'modified culman's method.	[10]
•	b)	Derive equation for EP at rest.	[7]
	,	OR	
Q4)	a)	Explain the steps for 'Anchored sheet pile design'.	[10]
	b)	Derive equation for Ka, Kp & Ko.	[7]

OR

Q5) a)

Q6) a)

b)c)

b)

c)

Explain 'Soil Nailing'.

Explain 'RE wall'.

Discuss 'Geosynthetics'.

Explain 'Prinquet & Lee theory'.

Explain properties of Geogrid.

Discuss functions of 'Geosynthetics'.

[5] [6]

[6]

[5]

[6]

[6]

SECTION - II

Q 7)	a)	Explain 'Barken's Method'.	[8]
	b)	Explain 'Pauw's Analysis'.	[8]
		OR	
Q8)	Disc	euss diff. methods for determination of Amplitude & Frequency.	[16]
Q9)	a)	Discuss 'Vibrofloation'.	[9]
	b)	Explain 'Double Undreamed pile construction'.	[8]
		OR	
Q10,)Disc	cuss different soil improvement techniques.	[17]
Q 11,)Disc	cuss 'Rheology' & 'Rheological models'.	[17]
		OR	
Q12,)Exp	lain the following:	
	a)	Flookean models.	[6]
	b)	Newtonian models.	[6]
	c)	Geep.	[5]

