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217	92	Name:	N STATE OF THE STA
126		Reg. No.	•••••
EI	GHTH	SEMESTER B.TECH. DEGREE EXAMINATION, DEC	
		2011	LIMBER
		2011	
		CE.04.805C - Soil Exploration Testing and Evaluation	g <u>g</u>
Tim	o The	ee hours	1 1 5
(A)	ic. THI	Maximum :	100 marks
	10. 61	(Answer all questions)	
	77920	A STATE OF THE STA	
1.	a. (i).	How would you decide the depth, size and number of boreholes in soil	
	/** \	exploration?	(10 marks)
	(11).	What are the factors affecting handling, preservation and transportatio	
*		samples? Explain.	(15 marks)
	h (i)	OR	
-27	<i>0.</i> (1).	Explain with neat sketch, the preparation of soil investigation reports.	/10 I \
	(ii).	Describe in brief various geophysical methods. Discuss their limitatio	(10 marks)
S 8	().	uses.	(15 marks)
			(15 marks)
9		ar va	
2.	a. (i).	What is particle size distribution curve? What are its uses in soil engin	STATE OF THE PARTY
	(ii).	What are the different methods for determination of the coefficient of	(10 marks)
		permeability in a laboratory? Discuss their limitations.	(15 marks)
		OR	(15 marks)
	b. (i).	What is the coefficient of consolidation? What is its use in settlement	analysis
		and their validity?	(10 marks)
	(ii).	Explain with neat sketch, the working procedure of vane shear test.	(15 marks)
			11 55
2	. D:	27 21 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
3.	a. Dis	cus with neat sketch, the working procedure of standard penetration tes	st. What
	are	the various corrections? What is the importance of the test in soil engin	
		OR	(25 marks)
	b. Ex	plain what are the various tests conducted to determine the permeability	of soil
Ş.	in t	he field	01 8011

4. a. Explain the various laboratory tests for the determination of the strength of rocks.

(25 marks)

b. Explain what are the commonly used tests for the measurement of in-situ stresses in rocks. (25 marks)

(4x25=100 marks)

(25 marks)