## 17450

	5162 Ho		50	Marks	Seat	No.						
1	Instru	ections –	(1)	All Questions	are Comp	oulsory.						
			(2)	Answer each	next main	Questic	on on a	a ne	ew p	age.		
			(3)	Figures to the	e right ind	icate ful	l mark	S.				
			(4)	Use of Non-p Calculator is			tronic	Pocl	ket			
			(5)	Abbreviations	used conv	vey usua	l mear	ning				
										Ma	rks	
1.		Attempt	any	<u>SEVEN</u> of t	he followiı	ıg:					14	
	a)	Enlist uses of soil as a construction material.										
	b)	Draw pł	diagrams for d	luty and sa	iturated	soil.						
	c)	Define b	density and sp	ecific grav	ity.							
	d)	What is degree of saturation? W water content and specific grave				Write its relation with void ratio, vity.						
	e) Explain briefly the need for so			or soil class	oil classification.							
	f)	Define:										
		(i) Per	meat	oility and								
		(ii) Co	effici	ent of permeal	bility							
	g) Why soils shrink and swell? E				l? Explain.	Explain.						
	h) Distinguish between standard an					and modified proctor test.						

- (any two points)
- i) State field situations, where compaction is needed.
- j) Write use of CBR.

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f) Elaborate on the factors that affect compaction.