	:No: 117AB [: JAWAHARLAL NEHRU B. Tech IV Year I Sem ADVANO	TECHNOLOGICAL Unester Examinations, No	vember/December -	ERABAD 2016	PE
	3 Hours This question paper contain Part A is compulsory which consists of 5 Units. Answer 10 marks and may have a, b	n carries 25 marks. Answany one full question fro	ver all questions in P	Marks: 75 art A. Pärt B estion carries	F6
1.a) b) c)	Write short notes on bearing Write briefly about foundati Write about efficiency of pi	ons on layered soils. le groups.		[3] [2]	F.S.
d) e), f) i g) h) i)	Write briefly about negativeDefine active earth pressureWrite about assumptions in Write about applications of Write about earth pressure for Define swell pressure and sy Discuss about remedial mea	and passive earth pressur Coulomb's theory of eart braced cuts. rom strut loads. welling potential.	re	[3] [2] [3] [2] [3] [2] [3]	
		PART-B	iii: iii.	(50 Marks)	
(2/ 	Determine the width of the 250kN. The depth of the γ=18.5kN/m ³ and the load retheory. Take factor of safety	footing is 1.5m in a single of	medium dense sar 25 ⁰ to the vertical. U	nd with $\emptyset=32^0$,	1 40
3.	Explain in detail about Jan clays.		g elastic settlement o	of foundation in [10]	
4.[A group of nime piles are are and 10m long. The unconfine $\alpha = 0.8$. Calculate the spacithe piles.	ined compressive strengt	th of the clay soil is of the pile group. Ne	90kN/iii ² , Take	A SALLY AS
5)	Explain about Reese and Ma Explain about stability of the a neat sketch.	ttlock Approach for latera	ally loaded piles with in the same and against sliding and a sale of the sale	a neat diagram.	L
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γ=18 thrus	skN/m ³ . Using R st when the top of	ankine's theory, of the backfill ca	and retains a co find the point of urrying a uniformly	application of v distributed le	the resultant active and of 4kN/m ³ and	Δ					
\checkmark			cantilever walls in OR location of anchora								
10. Explain Explain Explain	ain about granula : i; ain about chemic	ar pile <u>anchor</u> me initing al stabilization of	thod in expansive soils.	soils with a nea	nt sket <u>ch</u> . [10] 	P6					
00O00											
P6	PG	P6	PS	P6	P6	P6					
P6	PS	PS		Pë	P6	P6					
F'6	PS	PS	r P6	PE	PS	P6					
P6	PG.	P6	PE	P6	P6	P6					
PÉ	FE	F.G.	P6	P6	PE.	P6					
	FE	PE	FE	P6	P6	F6					