

Reg.	Ν	0:													
	SI	DDH	[ART]	H INS	TITU	TE O	FEN	GINE	ERIN	G & '	ГЕСН	INOL	OGY:: PUT	TUR	
							(AU	TON	OMOL	JS)					
		B.Teo	ch III	Year]	I Sem	ester :	Regul	ar Ex	amina ENCI	tions	Nove	mber/	December 20)18	
					GE	OIE	CHINI (Civ	CAL il Eng	ineerii	NEEI 19)	KING	-1			
Time:	3 h	ours					(01)			-8/			Max. Mar	ks: 60	
					(A	nswei	all Fi	ve Un	its 5 x	12 =	60 Ma	arks)			
					(UN	IT-I			,,			
1	a	Deri	ve the	relatio	onship	betwe	een e,s	,w and	d G by	using	three	phase	e diagram		7M
	b	Brief	fly exp	lain al	bout tl	ne hyc	lromet	er ana	lysis v	with no	eat ske	etches			5M
2	0	Drio	fluor	nloin o	hout t	ha aa	naistar) Any lin)R						71/
2	b A soil specimen has a water content of 10% and a wet unit weight of 20 KN/m ³ .													:	/ 101
	specific gravity of solids is 2.70, determine the dry unit weight, void ratio, and the degree of saturation.														5M
								UN	IT-II						
3	a	Expl	ain ab	out the	e facto	rs effe	ecting	perme	eability	y					7M
	b	Expl	ain ab	out the	e Darc	y's la	w and	write	the lin	nitatio	ns.				5M
4	0	Data	rmino	tha aft	factive	otrac	606 JIN	(dar hi) K Vdrosta	tic co	nditio	na			7M
4	a h	• A sand deposit is 10m thick and overlies a bed of soft clay. The ground water table is 3m												/ 1 V1	
		below the ground surface. If the sand above the ground water table has a degree of													
		saturation of 45% ,plot the diagrams showing the variation of the total stresses ,pore water												5M	
UNIT-III															5101
5	a	a Determine the vertical stress at a depth of 'Z' from the ground surface by using													714
		WESTERGAAD'S theory.													/ 1 VI
	b	• Explain about the compaction control in the field.													
6	9	UK Explain about the New marks influence chart with neat sketches													
0	a b	b Explain about the factors affecting compaction.													5M
		UNIT-IV													
7	a	Wha	t are th	ne diff	erent t	ypes	of con	solida	tion ar	nd exp	lain p	rimary	v consolidatio	n with	7M
	the help of spring analogy.										7101				
	D	Expl	ain ab	out the	e norm	ial, un	der an	a ove	r conse NP	olidate	ed clay	ys.			5M
8	a	Expl	ain ab	out the	e cons	olidati	on ch	aracte	ristics	with t	he hel	p of o	dedometer.		7M
	b Explain about the reloading curve with the help of graph.												5M		
								UN	IT-V						
9	a	Deter	rmine t	he shea	ar stren	igth of	soil b	y using	g tri- ax	ial she	ar test	•			7M
	b	D Explain about the shear strength of sand.													5M
10	a	Expl	ain ab	out the	e stren	gth er	velop	es wit	h neat	sketcl	nes.				7M
- 0	b	Defi	ne she	ar stre	ngth o	f soil	and w	rite th	e impo	ortance	е.				5M
							*:	** EN	D ***						