Total No. of Questions : 12]	SEAT No.:
D2124	[Total No. of Pages : 2

[5254]-517

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		B. E. (Civil)		
		ADVANCE FOUNDATION	E	NGINEERING	
		(2012 Pattern) (Ele	cti	tive - III)	
Time	2 : 2½	Hours]		[Max. Marks	: 70
Instr	ructio	ons to the candidates:			
	<i>1</i>)	Neat diagrams must be drawn whereve		necessary.	
	2)	Your answers will be valued as a whole	?.		
	3)	Assume suitable data, if necessary			
Q1)		w a typical cross section of unlined cars various components.	nal	l and explain I.S. code provis	sions [6]
	01 10	OR			[~]
()2)	Evn	lain the IS code provisions for subsoil	ρV	valoration for the construction	n of
Q2)	_	earth dams.	CA	exploration for the constituence	[6]
<i>03</i>)	Exp	lain the static method for estimation or	f L	Load carrying capacity of	[6]
~	a))	Bearing piles	
	,	OR			
04)	Exp	lain in detail the classification of piles	etail the classification of piles with respect to		[6]
z - /	a)	-)	materials.	[•]
	u)	Tanietton and	,	THAT CITALS	
Q 5)	_	lain the various stages in the construction ches.	n o	of under reamed piles with suit	table
		OR			
Q6)		w a neat sketch of stone columns and apponents. Also, comment on design cri		-	ious [8]
Q 7)	a)	Explain the soil line method (elastic foundations.	c a	approach) for the design of	raft [8]
	b)	Enlist the design of combined footing test.	g ba	pased on the standard penetra	
					LO]

P.T.O.

equations for [8]	ite bearing pressure. Write the terraghis	efine the term safe bearing pre ife bearing capacity for	Q 8) a)
	b) square footing	strip footing	
	ng.	circular footing.	
the terms [8]		xplain the terms	b)
	nent &	Elastic settlement &	
stimated.	settlement. Also, Explain how they are	consolidation settlement. Al	
functions of [8]	h of rockfill coffer dam and explain the	raw a neat sketch of rockfill carious components.	Q9) a)
o, explain the [9]	Titls and shifts in well foundation, Alseract the tilts in well during sinking.	-	b)
	OR	OR	
Explain the provisions for design as per IRC and as per IS for the design of well foundation. [8]		Q10)a)	
How they are [9]	forces acting on the well foundation.	nlist the various forces acting stimated?	b)
[8]	a) Explain the stress distribution around tunnels in case of [8]		
	and b) plastic case.	Elastic case and	
mplete ditch [9]	I on positive projecting conduit in 'coated.	xplain how load on positive judition' is estimated.	b)
	OR	OR	
[8]	Explain the projecting conduits for the cases		Q12)a)
	nduits in complete projection.	Projecting conduits in comp	
	nduits in Incomplete projection.	Projecting conduits in Incor	
ng conduits[9]	n "Estimation of load on Negative projecti	rite a short note on "Estimation of	b)