Total No. of Questions: 6

P4443

SEAT No. : [Total No. of Pages : 2

[5255]-105

M.E. (Civil) (Structures) DESIGN OF FOUNDATIONS

(2008 Pattern) (Semester - I) (Elective - I)

Time : 4	-	-	Max. Marks : 100
1) 2) 3) 4) 5)	Answ Answ Neat o Your o	the candidates: er any TWO questions from each section. ers to the two sections should be written in separate books. diagrams must be drawn wherever necessary. answers will be valued as a whole. f electronic pocket calculator is allowed & IS codes are not	
		SECTION-I	
Q1) a)	Exp	plain with example, steps for determination of consolidation	ation settlement. [10]
b)	Dis	cuss	[15]
	i)	A-line chart,	
	ii)	SSI,	
	iii)	Teng's correlations,	
	iv)	IS-1892-1972, Provisions,	
	v)	Proportioning of footing.	
Q2) a)	Dis	cuss the needs for different types of raft.	[9]
b)	Exp	plain the steps for 'Design of flat slab raft'.	[8]
c)	Exp	blain the steps for 'Beam & raft (slab) foundation'.	[8]
Q3) a)		mpare, design of foundations for Rotary m/c & Im 2974-Pt-II-1966.	npact m/c, wrto [15]
b)	Exp	plain determination of Cu & Amplitude.	[10]

SECTION-II

<i>Q4)</i>	a)	Compare NSF & PSF.	[8]
	b)	Explain steps for Design of precast & cast in-situ piles.	[9]
	c)	How will you compute settlement of pile group.	[8]
Q5)	a)	Discuss the steps for 'Design of RCC precast pile'.	[17]
	b)	Explain the steps for 'Rees & Matlock Method'.	[8]
Q6)	a)	Explain the steps for 'Design of pile cap'.	[9]
	b)	Discuss 'IS code recommendations' for 'shell foundations'.	[8]
	c)	Compare 'Hyperbolic & conical RC shell foundations' with & w edge beams.	ithout [8]

