Max Marks: 80

Time: 3 Hrs.

PLE	ASE	NOTE:	
1	. Q	uestion No 1 is Compulsory.	
2	2. At	Attempt any three questions out of remaining questions. Figures to the right indicate full marks.	
3	. Fi		
Q1		Answer any four questions	20
	a)	What is the reason that 'The ramps are made compulsory in all public buildings'	
	b)	During fire in building, lifts should not be used. Only staircase should be used.	OF TO
		Do you agree with this statement? Explain the reason.	
	c)	Compare single phase and three phase electricity supply	<u> </u>
	d)	Write a short note on rebound hammer test	
	e)	Write list of various tests done to assess the condition of structure	
	f)	Write a short note on polymer concrete	
Q2		Answer any four questions	20
	a)	Compare lifts and escalators	
	b)	If there is fire in your building, explain what will be your response.	
	c)	Explain different types of wires used.	
	d)	Draw neat sketches of different types of cracks observed in buildings.	
	e)	Write a short note on ultra-sonic pulse velocity test.	
Q3	a)	Draw neat sketches of following and name all important components. (explanation	10
		not required)	
		i. Septic tank	
	55.55 55.55	ii. Earthing system	
	b)	Compare destructive and non-destructive tests	10
Q4	a)	What are the causes of distress in concrete structures.	10
	b)	Draw and explain the water supply system of a residential building.	10
Q5	a)	What factors you will consider while choosing repair material.	10
	b)	Write a note on classification of lighting	05
	c)	What are causes of seepage in concrete structures	05
Q6	a)	Write a note on modern lighting	10
	b)	Explain the methods of corrosion prevention.	10
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