(03 Hours)

[Total marks:80]

PLE	EASE	E NOTE:	
-	1. (Question No 1 is Compulsory.	
2	2. A	Attempt any three questions out of remaining questions.	
	3. F	Figures to the right indicate full marks.	
4	4. I	llustrate answer with proper sketches.	
Q1		Write short notes on any four.	20
	a)	Main advantages of escalators over other vertical circulation systems.	300
	b)	Measures of fire prevention in buildings.	500
	c)	Artificial light sources	
	d)	Thermal protection coatings.	
	e)	Effect of climate on concrete structures	
	f)	Corrosion resistant steel.	
	g)	Rebound hammer test	
Q2	a)	Explain the design of modern lighting with examples.	10
	b)	Explain different types of cracks and crack measurement techniques.	10
Q3	a)	Explain with proper sketches about "Causes of Deterioration" of concrete	10
		structure.	
	b)	Explain drainage systems in buildings with neat sketch.	10
Q4		Write short notes on any four.	20
	a)	Cathodic protection.	
	b)	Causes of fire in buildings.	
	c)	Types of wires	
	d)	Septic tank	
	e)	Factors affecting visual task	
	f)	Polymer concrete Polyme	
Q5	a)	What are the objectives of grouting? Explain various types of injection grouting.	10
	b)	Write a note on destructive and non-destructive tests.	10
Q6	a)	Explain the procedure for conducting condition survey of an RCC structure.	10
	b)	What are special construction features provided for elderly and handicapped	10
		persons	
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60167 Page **1** of **1**