(3 HOU	URS) [Total Marks	[Total Marks:80]	
N.B: 1. 2. 3.	Question No:1 is compulsory Attempt any three questions from the remaining five questions. Figures to the right indicate full marks		
Q 1		(20)	
a	Explain the concept of soil heating.		
b	Describe Micro piling and underpinning for strengthening the floor.	A X	
c	Describe Solar paints.		
d	Write down the stepwise procedure of dredging.		
Q 2		(20)	
a	Describe the procedure for erecting lightweight components on tall structures.	10	
b	Explain the balanced cantilever method of Bridge construction.	10	
Q 3		(20)	
a	Describe the construction of the underwater diaphragm wall.	10	
b 4	Mention the key aspects of green building and comment on LEED and GRIHA	10	
	ratings.		
Q 4	Str. The The Third Str. Str.	(20)	
a	Explain the methodology adopted in the post-tensioning of the slab.	10	
b	What are Pre-Fabricated Vertical Drains? How are they installed?	10	
Q 5			
a	Explain how seismic Retrofitting for Slabs is done.	10	
b	Explain micropiling & underpining.	10	
ADD			
Q 6	Write short notes on:	(20)	
a	3-D printing in construction.		
b	Dewatering for underground open excavation.		
C	Air and moisture barrier.		
d	Articulated Structures.		
AV	**********		

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