DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY LONERE - RAIGAD - 402103

Summer Semester Examination, May 2018

Branch: M. Tech. Civil (Structural Engineering) Sen		ester: II	
		rks: 60	
- and just the	[CVSE-E3C]		
Date: 18 / 05 / 2018		Time: 3 Hrs.	
Instructions	to the Students		
	question carries 12 marks		
2. Atter	npt any five questions of the following		
Illust	rates your answer with neat sketches, diagrams etc., wherever necessary		
	me part or parameter is noticed to be missing, you may appropriately assume it and should mentio er location.	n it clearly a	
Q. No. 1			
A)	What do you mean by quality assurance in concrete construction? Why quality assurance is important? What do you mean by quality assurance in concrete construction? Why quality assurance is important?	[6]	
B)	Explain different non-destructive test/techniques to evaluate strength of concrete.	[6]	
Q. No. 2			
A)	Explain causes of cracks in structures. Also enlist different types of cracks.	[6]	
B)	Explain causes of dampness in buildings.	[6]	
Q. No. 3		1987-2018-24	
A)	Discus procedure to repair the deteriorated steel structure elements.	[6]	
B)	Explain types and causes of deterioration in steel structure.	[6]	
Q. No. 4		(2)20	
A)	Discus factors affecting properties of fiber reinforced concrete.	[6]	
B)	Explain Sulphur infiltrated concrete? State its applications.	[6]	
Q. No. 5		gai s	
A) .	Define terms Maintenance, Repair and Rehabilitation.	[6]	
B)	Discuss causes of deterioration in concrete structure?	[6]	
Q. No. (
A)	Why strengthening of existing reinforced concrete structure is necessary?	[6]	
B)	Discuss materials and methods of strengthening of reinforced concrete structure.	[6]	

99628EFED935F3D318AE47CD3D8DC760