DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY LONERE - RAIGAD - 402103

Summer Semester Examination, May 2018

Dronoh: N	1. Tech. Civil (Structural Engineering) Se	emester: II	
	1. Toon. Of in (Suddeline Engineering)	Marks: 60	
Subject w	in subject coue. Renoming of Substance	viaiks. 00	
	[CVSE-E3C]		
Date: 18 / 05 / 2018		ime: 3 Hrs.	
	to the Students	18 8° 7 11 12	
	question carries 12 marks		
	npt any five questions of the following trates your answer with neat sketches, diagrams etc., wherever necessary		
4. If so	ome part or parameter is noticed to be missing, you may appropriately assume it and should men	ntion it clearly a	
	er location.		
O N- 1			
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? W	nce [6] /hy	
100	quality assurance is important?		
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			
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		10	
A)	Discus factors affecting properties of fiber reinforced concrete.	[6]	
B)	Explain Sulphur infiltrated concrete? State its applications.	[6]	
Q. No. 5		, of 8.	
A)	Define terms Maintenance, Repair and Rehabilitation.	[6]	
B)	Discuss causes of deterioration in concrete structure?	[6]	
Q. No. 0	j		
A)	Why strengthening of existing reinforced concrete structure is necessary?	[6]	
B)	Discuss materials and methods of strengthening of reinforced concrete structure.	[6]	