

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Regular and Supplementary Summer 2024

Programme: Civil Engineering

Course: B. Tech.

Semester : VIII

Subject Code & Name: BTCVSS801D Maintenance and Repair of Concrete Structures.

Max Marks: 60

Date: 13/06/2024

Duration: 3.00 Hr.

Instructions:

1. All Questions are Compulsory
2. Assume suitable data wherever necessary and mention it clearly

		[Level/CO]	Marks
Q.1	Solve Any Two of the following.		
A]	Explain the necessity of maintenance activities in structural operations.	C01	06
B]	Elaborate the repair aspects in concrete structures.	C01	06
C]	Explain cracking phenomena in concrete structures.	C01	06
Q.2	Solve Any Two of the following.		
A]	Explain the concept of Supplementary cementitious materials.	C02	06
B]	Explain durability aspects of concrete.	C02	06
C]	Elaborate the use of chemical admixtures in concrete.	C02	06
Q. 3	Solve Any Two of the following.		
A]	Explain the service and exposure conditions of concrete.	C03	06
B]	Elaborate the steps of condition assessment of concrete structures.	C03	06
C]	How to conduct visual inspection in concrete structures?	C03	06
Q.4	Solve Any Two of the following.		
A]	Explain the types of stresses in concrete.	C04	06
B]	Elaborate the concrete surface repair types.	C04	06
C]	Explain column repair process.	C04	06

Q.5	Solve Any Two of the following.		
A]	Explain the difference between strengthening and stabilisation.	C05	06
B]	Explain flexural strengthening methods.	C05	06
C]	Elaborate different failure modes of walls.	C05	06

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