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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- III(OLD) EXAMINATION - SUMMER 2019

Subject Code: 130605 Date: 19/06/2019

Subject Name: Concrete Technology

Time: 02:30 PM TO 05:00 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	Describe procedure of IS Code Method of mix design. Enlist the types of cements and explain any two.	07 07
Q.2	(a) (b)	Enlist tests on cement. Explain Initial & Final Setting time Test of cement. Explain process for manufacturing of cement. OR	07 07
	(b)	What is curing? Explain membrane curing.	07
Q.3	(a) (b)	What is NDT? Explain Rebound hammer test in detail. Define Creep. Explain factors affecting creep of Concrete.	07 07
		OR	
Q.3	(a)	Write short note on segregation and bleeding.	07
	(b)	Define flakiness and elongation index of aggregate. Explain aggregate Abrasion test.	07
Q.4	(a)	Write short note on permeability of concrete. Explain factors affecting permeability of concrete.	07
	(b)	Write Short note: (i) Sulphate attack, ii) specific gravity of aggregate. OR	07
Q.4	(a)	State different types of special concrete and describe any one.	07
	(b)	Explain different types of slump with sketch only.	07
Q.5	(a)	Write short note on alkali aggregate reaction and sulfate attack.	07
	(b)	Discuss the Compressive strength test of concrete.	07
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Q.5	(a)	Discuss the factors which influence the choice of mix design.	07
•	(b)	Define workability. Enlist the test for measurement of workability and Explain any one.	07
