Seat No.: _____

Enrolment No._____

1

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- III EXAMINATION - SUMMER 2015

Subject Code:130605	Date:04/06/2015
Subject Name:Concrete Technology	
Time:02.30pm-05.00pm	Total Marks: 70
Instructions:	
1 Attempt all questions	

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.

-

3. Figures to the right indicate full marks.

Q	.1 (a		
		1)Ordinary Portland Cement	08
		2) Rapid Hardening Cement 3)Sulphate Resisting Cement	
		4)Quick Setting Cement	
		i)Quick betting content	
	(b)		06
		give their I.S values 1) setting time 2) compressive strength 3) soundness.	
			•
Q	.2 (a)		06
		1)Maximum size of Aggregate 2)Plum Concrete 3) All in Aggregate	
	(b)	9	08
		OR	and the second
	(b)	State adverse effects of excess use of admixtures.	08
Q	.3 (a)	Give factors affecting workability of concrete.	07
	(b)	Explain how slump test is carried out in laboratory.	07
		OR	
Q	Q.3 (a) Explain True slump, Shear slump and Collapse with		07
	(b)	Write short note on 1) SEGREGATION 2) BLEEDING	07
Q	.4 (a)	Why curing is required? State different methods of curing.	07
	(b)		07
		OR	
Q			07
	(b)	State three categories of ready mix cement(R.M.C).Explain any one in detail	07
Q.5	.5 (a)		06
		1)Rebound hammer test	
		2) Pullout test	
		3) Micro cracking in concrete	
	(b)		08
Q.	5 (a)	OR State and explain factors officiating the choice of min decim	07
Q.	.5 (a) (b)	State and explain factors affecting the choice of mix design. Distinguish between Nominal mix and Design mix of concrete.	07
	(0)	Distinguish between Nominal mix and Design mix of concrete.	07
