Reg. No.						



II SEMESTER M.TECH. (CONSTRUCTION ENGG. & MANAGEMENT) END SEMESTER EXAMINATIONS, APRIL/MAY 2017

SUBJECT: RECENT ADVANCES IN CONCRETE TECHNOLOGY [CIE 5239] REVISED CREDIT SYSTEM (29/04 /2017)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- * Answer **ALL** the questions.
- Missing data may be suitably assumed..

1A.	Explain the properties of hardened concrete with related tests for the same.					
1B.	What are Bogues compounds? Explain hydration of cement along with reactions taking place during the same.					
2A.	What are the properties, advantages, disadvantages and applications of self-compacting concrete?					
2B.	Write short notes on heavy weight concretes					
2C.	Discuss concreting practices					
3A.	Explain Non-Destructive tests for hardened concrete					
3B.	What are steps taken for Quality Control of Concrete?					
4A.	Explain the guidelines for Mix design of high strength concrete in general.					
4B.	Discuss physical deterioration process in concrete.	4				
	Define:					
5A.	a) Durability of concrete	2				
	b) Biological deterioration of concrete					
5B.	Which are the crack repair procedures in concrete? Explain each	4				
5C.	Write short notes on corrosion of reinforcing steel.	4				

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