GUJARAT TECHNOLOGICAL UNIVERSITY ME - SEMESTER-2 (NEW)• EXAMINATION – SUMMER 2015

5			2015	
Т	Subject Name: Advanced Civil Engineering Materials Time: 02.30 PM to 05.00 PM Total Marks: ' Instructions: 1. Attempt all questions.		I	
	2. 3.	Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Discuss briefly the mechanical and physical properties of material. How do you see the importance of engineering materials for construction management? Support your answer with suitable examples.	07 07	
Q.2	(a)	Write various advantages of fly ash bricks? Also compare the fly ash bricks with conventional bricks.	07	
	(b)	Write short note on : (1)Super Plasticizer (2) Fiber Reinforced Concrete	07	
	(b)	OR Explain the Gypsum board wall construction and its advantages and disadvantages	07	
Q.3	(a)	Explain : (1) High performance concrete (2) High strength Concrete	07	
	(b)	Enlist various tests of cement and explain any two in detail.	07	
Q.3	(a)	OR Write Short note on : (1) Sound insulation material and its applications	07	
	(b)	(2) Damp Prevention material and its applicationsDescribe the role of the following :(1) Water Proofing admixture (2) Air entraining admixture	07	
Q.4	(a)	What does RMC means? Explain various advantages of RMC with technical as	07	
	(b)	well as construction management point of view. Describe the features and advantages of self-compacting concrete. OR	07	
Q.4	(a)	State various reasons of deterioration of concrete. Also enlist various measures to prevent such deterioration.	07	
	(b)	Differentiate between ferrous and non-ferrous metals? Mention examples, properties and uses of each type.	07	
Q.5	(a) (b)	What is an Adhesive? Describe its advantages and disadvantages. Explain various types of Sealants. Also mention advantages and disadvantages of using sealants in construction industry OR	07 07	
Q.5	(a)	Enlist and explain various desirable advancement criteria desired for technical	07	
	(b)	 enrichment as well as for the construction management. Write Short note on : (1) Application of Aluminum in construction (2) Fiber Reinforced Plastic and its applications 	07	
