Sea	t No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
<b>C</b> 1	• 4	M. E SEMESTER – II • EXAMINATION – SUMMER • 2014	
	•	code: 1721401 Date: 16-06-2014	
Tir	•	Name: Advanced Civil Engineering Materials 2:30 pm - 05:00 pm Total Marks: 70	
		Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	Differentiate between õAerated Autoclaved blocksö and õFly-ash bricksö. Discuss briefly the properties of materials.	07 07
Q.2	(a) (b)	Enumerate the characteristics of a good building stone.  Explain how the following tests for stones are carried out: - (a) Hardness test  (b) Impact test	07 07
	(b)	OR  Describe in brief methods used for quarrying stone for building work.	07
Q.3	(a) (b)	Describe properties and uses of: (a) Copper (b) Aluminum (c) Cast iron Give the classifications and properties of different types of lime.  OR	07 07
Q.3	(a) (b)	Write short notes on: Ferro cement What are the various ingredients of the plastics? Give their specific uses.	07 07
Q.4	(a) (b)	Write short notes on Geosynthetics. Write short notes on: Sound insulating materials OR	07 07
Q.4	(a) (b)	Explain briefly the special varieties of glass. Write short notes on: Heat insulating materials	07 07
Q.5	(a) (b)	Enlist different types of admixtures. Explain any two in detail.  Write short note on õMarket form of Timberö.  OR	07 07
Q.5	(a) (b)	What is a sealant? What are their applications in the construction industry? Write short note on or Timbero.	07 07

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