Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. Sem. – IInd - Examination – June/July- 2011 Subject code: 1721401

Subject Name: Advanc	ed Civil Engineering Materials
Date:22-06-2011	Time: 10.30am to1.00pm
	Total Marks: 70

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

Q.1	(a) (b)	Discuss briefly the properties of materials. What are the main classifications of rocks? Explain briefly.	07 07
Q.2	(a)	What are the materials required in blasting? Describe the process of blasting rocks.	07
	(b)	Describe, giving sketches, the process of manufacture of lime. OR	07
	(b)	Write short notes on High alumina cement & Rapid hardening cement.	07
Q.3	(a)	Enumerate and discuss briefly the various steps required for	07
	(L)	the preparation of plain cement concrete.	07
	(b)	What are the various ingredients of the plastics? Give their specific uses.	07
		OR	
Q.3	(a)	Explain in details "Geosynthetics"	07
	(b)	Describe the Glass wool & Foam glass.	07
Q.4	(a)	Write short notes on Adhesives & Asbestos.	07
	(b)	Write short notes on Heat insulting materials & Damp proofing materials	07
		OR	
Q.4	(a)	Write short notes on Deterioration of concrete and its prevention.	07
	(b)	Write an essay on "Deterioration & Preservation of Timber".	07
Q.5	(a)	Discuss the important properties and engineering applications of	07
	(b)	any one of the following metals: copper, lead, zinc, aluminium. Write short notes on: silica fume concrete for high rise	07
	(0)	buildings	U/
		OR	
Q.5	(a)	"Corrosion of metals is a process which causes losses of millions of	07

rupees every year". Give your comments.

(b) Explain in details "sealants"

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