Seat N	o.:	Enrolment No.	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M.E –IIst SEMESTER–EXAMINATION – JULY- 2012	
Subj	ect c	ode: 1721401 Date: 06/07/2	2012
•		Jame: Advanced Civil Engineering Materials	
Time: 10:30 am – 13:00 pm Total Mark			s: 70
Instr		-	<b>D•</b> 70
		empt all questions.	
		ke suitable assumptions wherever necessary.	
		ires to the right indicate full marks.	
•	5	ires to the right interest run maritis.	
Q.1	(a)	Write short note on the manufacture of bricks by bull's trench kiln.	07
	<b>(b)</b>	Comment on composition, Properties and uses of the following	<b>07</b>
		types of stones: Granite, Marble, Basalt, slate.	
<b>Q.2</b>	(a)	Write short note on "causes of deteriorations".	07
	<b>(b)</b>	•	07
		Portland cement.	
	<b>(b)</b>	OR Explain briefly functions of ingredients of cement, Explain briefly	07
	(D)	various tests carried out for testing of Portland cement.	07
Q.3	(a)	Write short note on "construction materials for high rise	07
Q.C	(33)	structures".	· ·
	<b>(b)</b>	Give the classification of ceramics materials and Describe the mechanical	07
		properties of ceramics.	
		OR	
Q.3	(a)		07
0.4	<b>(b)</b>	± •	07
<b>Q.4</b>	(a)		07
	<b>(b)</b>		07
		them.	
0.4	(a)	OR  Describe briefly the classification of tar and the specifications of bitumen	07
Q.4	(a)	a biding materials.	U/
	<b>(b)</b>	Describe briefly application of glass in building industry.	07
Q.5	(a)	• 11	07
<b>V</b>	<b>(b)</b>	What is an adhesive? What are advantages and disadvantages of	07
	, ,	adhesives over the conventional methods of bolting, riveting and	
		welding?	
		OR	
Q.5	(a)	Write short note on "Water stops".	07
	<b>(b)</b>	"Without heat treatment, steel may be as good a material as pig iron or	07
		cast iron".Critically examine the statement and give your comments.	