GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-IV Examination June-2010

		Subject Name: Building Construction 06 /2010 Time: 10.30 am – 01.00 pm Total Marks: 70		
Instr	1 2.]	ions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Define: (1) Scotia (2) Reveal (3) Corbel (4) Buttress (5) Durability (6) Horn (7) Thermal Conductivity	07	
	(b)		07	
Q.2	(a)	What are the basic characteristics of black cotton soil? What precautions should be taken during foundation construction in black cotton soil?	07	
	(b)	Explain Brick Cavity Wall with sketch.	07	
	(b)	Explain steel grillage foundation with all details.	07	
Q.3	(a) (b)	Explain relieving arch and horse shoe arch. Discuss different causes of failures of arches.	07 07	
Q.3	(a)	OR What is water- cement ratio? How it affects on strength and workability of concrete?	07	
	(b)		07	
Q.4	(a) (b)	1	07 07	
Q.4	(a) (b)	What factors should consider for selecting type, shape and size of window?	07 07	
Q.5	(a) (b)		07 07	
Q.5	(a) (b)	What is underpinning? Explain Pit method for the same.	07 07	