Registration No.:					,		
Total number of pri	nted	page	s-2				B. Tech
							 DCCE 4203

## Third Semester Examination – 2010 BUILDING MATERIALS AND BUILDING CONSTRUCTION

		Full Marks – 70	
		Time: 3 Hours	
	Answ	er Question No. 1 which is compulsory and any five from the The figures in the right-hand margin indicate marks.	ne rest.
1.	Ans	wer the following questions:	2×10
	(a)	What is the compressive strength of first class brick?	
	(b)	What do you mean by bull nose brick?	
	(c)	Classify the rocks as per geological classification.	
	(d)	Name four different types of useful Indian Stones.	
	(e)	State the chemical constituents of cement.	
	(f)	Define workability of concrete.	
	(g)	State the names of different types of shallow foundation.	
	(h)	Classify various types of joints in stone masonry.	
	(i)	State various types of wooden stairs.	
	(j)	State various types of binders used for plastering.	
2.	(a)	What are the various methods adopted for manufacture of brick	s?Explain
		kiln burning process.	7
	(b)	State the qualities of a good brick.	3
		(4)	DTO

(1) P.T.O.

Describe the dry process of manufacture of cement. Draw a figure and show 3. 10 various stages of manufacture. Describe the various factors which influence the workability of concrete. Explain 4. 10 the procedure for 'slump test'. What are the characteristics of good building stones? Explain any suitable method 5. 10 adopted for quarrying of stones. What do you mean by spread foundation State and explain various types of 6. spread foundations with separate figure for each one. 10 (a) Describe the causes of failure of brick masonry. 5 7. (b) Distinguish between rubble stone masonry and ashlar stone masonry. Write short notes on the followings: (any four) 2.5×4 8. (a) Cavity walls Damp proof course Types of stairs Concrete flooring (d) (e) Defects in plastering.