## B.Tech. Civil (Construction Management)

## Term-End Examination December, 2010

## ET-522 : CONCRETE TECHNOLOGY & CONSTRUCTION TECHNIQUES

		ours Maximum Marks	ipport your answer with neat sketches,	
		nswer any five questions. All questions carry equarks. Support your answer with neat sketcherever necessary.		
1.	(a)	Discuss compound composition of OPC.	7	
	(b)	Discuss alkali - aggregate reactions in concrete.	7	
2.	(a)	What is an admixture? Enlist various types of admixtures used in concrete.	7	
*	(b)	What is meant by Bleeding of concrete? What are the factors that affect it?	. <b>7</b>	
3.	(a)	What do you understand by characteristic strength of concrete? How is it determined?	7	
	(b)	How can fire resistance of concrete be improved? Discuss	7	

4. (a) Discuss the test to determine flexural 7 strength of concrete. (b) Write the procedure of conducting Rebound 7 Hammer test. 5. What is Fibre Reinforced Concrete? What (a) 7 are the different types of fibres used in concrete? (b) Discuss the use and advantages of polymer 7 concrete? What is shotcrete? How is it different from 6. (a) 7 ordinary concrete? (b) What is Ferro Cement? What are the 7 advantages and applications of Ferro Cement? 7. Write short notes on any two of the following: (a) Different methods of Diaphragm wall construction. (b) Different types of piles. (c) Types of formwork used in construction. (d) Concreting under water. 2x7 = 14