## B.Tech. Civil (Construction Management) / B.Tech. Civil (Water Resources Engineering)

## Term-End Examination June, 2011

## ET-204(B): ENGINEERING MATERIALS

Time: 3 hours Maximum M			1arks : 70	
<b>Note:</b> Attempt any five questions. All questions carry equa marks. Your answer should be in your own language.				
1.	(a)	How the lime is manufactured? Explain the slaking of lime.	7	
	(b)	What are the different grades of OPC available in Indian Market? What is hardening of cement?	7	
2.	(a)	What is meant by water proofing? What are the different water proofing materials available in the market?	7	
	(b)	What are the different adhesives available in the market? Explain any one in detail.	7	
3.	(a)	How can you provide granolithic flooring?	7	
	(b)	What is Polymer Concrete? What are the merits and demerits of granolithic flooring?	7	

4.	(a)	What are paints? What are the different paints used?	
	(b)	How can you determine the normal 7 consistency of cement ?	
5.	(a)	What is an admixture? What are the 7	
		different types of admixtures used in concrete?	
	(b)	How the curing compounds are utilized?	
6.	Writ	e short notes on the following. $4x3\frac{1}{2}=14$	
	(a)	Hardening of lime	
	(b)	Alkali - aggregate reaction	
	(c)	Types of cement '	
	(d)	Storage of cement	
7.	Write short notes on the following. $4x3\frac{1}{2}=14$		
	(a)	Fly ash	
	(b)	Concrete grades	
	(c)	Flakiness index	
	(d)	Bulking of Sand	
8.	Write short notes on the following. $4x3\frac{1}{2}=1$		
	(a)	Cut - back bitumen	
	(b)	Timber flooring	
	(c)	Epoxy resins	
	(d)	Water - Cement Ratio	