B.Tech. Civil (Construction Management)

Term-End Examination

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ET-522

June, 2018

ET-522: CONCRETE TECHNOLOGY AND CONSTRUCTION TECHNIQUES

Tin	ne : 3	hours Maximum Marks :	aximum Marks : 70	
Note: Answer any five questions. All questions carry equal marks. Support your answers with neat sketches wherever necessary.				
1.	(a)	Enumerate different types of cement along with their uses.	7	
	(b)	Explain alkali-aggregate reaction.	7	
2.	(a)	Write about super plasticizers.	7	
	(b)	What are the factors affecting workability of concrete?	7	
3.	(a)	What are the different types of curing methods?	7	
	(b)	Write about permeability of concrete.	7	
4.	(a)	What are the types of concrete cracks?	7	
	(b)	Write about fiber reinforced concrete.	7	
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5.	(a)	How can concreting be done under water?	7
	(b)	What is ferro cement? What are the advantages and applications of ferro cement?	7
6.	(a)	What are sheet piles? What are the different types of cotter dams?	7
	(b)	Give the classification of piles.	7
7.	(a)	What is formwork? What are the requirements of good formwork?	7
	(b)		7
8.		ite short notes on any four of the owing: $4 \times 3 \frac{1}{2} =$	14
	(a)	Z	
	(b) _*	Aggregate crushing value test	
	(c)	Creep of concrete	
	(d)	Pre-packed concrete	
	(e)	Under reamed piles	