No. of Printed Pages: 3

ET-581(A)

B.Tech. Civil (Construction Management) Term-End Examination

December, 2017

00117

ET-581(A): TESTING FOR QUALITY CONTROL

Time : 3 l	hours Maximum M	Maximum Marks : 70	
	Question number 1 is compulsory. Attentions from rest of the questions.	empt any	
1. Fill i	in the blanks :	7×2=14	
(a)	Thorin method is used to find water.	in	
(b)	The angularity number is estimated by formula	y the	
(c)	Higher is the value of ACV, w the quality of aggregate.	rill be	
(d)	In the Los Angeles abrasion tes aggregates, the number of steel spheres for grading C is		
(e)	The dimensions of slump cone are	<u> </u>	
(f)	With increase in compacting factor very the Vee-Bee time	alue,	
(g)	Windsor probe estimates the streng concrete by $f_c = A W^B$, where W is		
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2.	(a)	What is the consistency of standard cement paste? How is it determined?	7
	(b)	Why is it necessary to carry out tests on water to be used for making and curing of concrete? Explain any two tests.	7
3.	(a)	Explain with a suitable example, the sieve analysis of aggregates.	7
	(b)	Define Flakiness Index. Explain how it is determined.	7
4.	(a)	Compare the various tests used for finding the workability of concrete.	7
	(b)	What is the role of water present in concrete? How is it determined?	7
5.	(a)	Discuss the factors affecting workability of concrete.	7
	(b)	What are the different types of Pull-out tests? Explain LOK test.	7
6.	(a)	Discuss the applications of ultrasonic pulse velocity.	7
	(b)	Explain the properties of a normal distribution curve. What are its uses in quality control?	7
		quality control?	

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- 7. Write short notes on any two of the following: $2\times7=14$
 - (a) Testing of Plywood and Blackboard
 - (b) Impermeability of AC Sheets
 - (c) Resonant Frequency Method