B.Tech. Civil (Construction Management)

Term-End Examination December, 2012

ET-581(A): TESTING FOR QUALITY CONTROL

Time: 3 hours Maximum Ma			70
Note	o)	Question No. 1 is compulsory . Attempt any four of balance six questions. The answers shall be in your language.	
1.	Fill	in the blanks :	
	(a)	method is used to determine sulphate in water while water having more than 0.08ppm of may be avoided for curing.	2
	(b)	is a measure of dispersion of data while is the Positive Square root of the variance of data.	2
	(c)	and principles are used in measuring surface Hardness methods in non-destructive testing.	2
	(d)	is applicable to Cylindrical Specimen. The ends of test Specimen. Which are not plane withinmm are Capped.	2

	(e)	IS 2386-1963 gives six different tests for knowing mechanical properties of However the four most common tests used are, and		
	(f)	For determination of modules of rupture of concrete beams, IS:516 specifies loading.		
2.	Stre	plain the factors affecting Compressive ength of Concrete. What is K-slump tester? 6+8=14		
3.	testi	at do you understand by non-destructive and? Give the classification along with the umstances under which each one can be used. 5+9=14		
4.	-	lain the methods for determination of the wing: Compressive Strength of Bricks Workability of concrete mix Effloresence of Bricks Flakiness Index of Aggregate		
5.	(a) (b)	What do you understand by Soundness? Explain soundness test on aggregate. 8+6=14 Explain Alkali Aggregate Reactivity with the help of mortar bar Expansion test method.		

- 6. What do you understand by bleeding of concrete? Explain the method for test for bleeding of concrete in detail giving apparatus, procedure and method of Calculation.

 3+3+4+4=14
- 7. Write Short notes on the following. $4x3\frac{1}{2}=14$
 - (a) Magnetic method for Testing Hardened concrete
 - (b) Determination of flexural strength of concrete
 - (c) Standard pull out test
 - (d) Ring tension test