B. Tech. Sem – III (Civil Engg.) 2014 COURSE) (CBCS) : SUMMER - 2019

SUBJECT: CONCRETE TECHNOLOGY

Day: Date:	Wednesday 15/05/2019		S-2019-2555	Time: 02.30 PM TO 05.30 PM Max Marks. 60		
N.B.	1) 2)	, · · · · · · · · · · · · · · · · · · ·				
	,		ientific non-programmable calculator is ALL 0	OWED		
Q.1	a) b)	-	a "Dry process of manufacturing cement". a alkali aggregate reaction and factor promotion. OR	ng the alkali aggregate	(05) (05)	
	a) b)	-	"Grading of aggregates". "Hydration of cement and ASTM classification	on".	(05) (05)	
Q.2	a) b)		the factors affecting workability. in brief "Methods of curing". OR		(05) (05)	
	a) b)	_	analysis of fresh concrete. the difference between segregation and bleed	ing?	(05) (05)	
Q.3	a) b)		the shrinkage, Explain plastic shrinkage and d the factors affecting creep in concrete. OR	ry shrinkage.	(05) (05)	
	a)	-	non-destructive testing and Explain method method?	od of ultrasonic pulse	(05)	
	b)	Explain	Creep – time curve.		(05)	
Q.4	a) b)	-	DOE method of concrete mix design in brief. selection of water cement ratio in mix design OR		(05) (05)	
	a)	Define proporti	design mix and explain the factors governing	g the selection of mix	(05)	
	b)	Explain	mix design concept and variables in mix design	gn.	(05)	
Q.5	a) b)	_	plasticizers (Water Reducers) compatibility of superplasticizers and cement OR	:.	(05) (05)	
	a) b)		short note on self-compacting concrete roller compacted concrete.		(05) (05)	
Q.6	a) b)		short note on light weight concrete. durability of concrete. What are the factors af	ffecting durability?	(05) (05)	
			OR			
	a) b)		short note on polymer concrete and Ferro-cent the difference between under water concreting		(05) (05)	

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