A		Reg. No. :											
		Question Pap	er (	Cod	e: 5	410	2						
B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019													
Fourth Semester													
Civil Engineering													
15UCE402 - CONSTRUCTION TECHNIQUES, EQUIPMENTS AND PRACTICES													
(Regulation 2015)													
		(IS 10262:20	)09 p	perm	itted	)							
Dura	ation: Three hours	Answer AI	ΙO	mesti	ions			M	laxin	num	: 100	Maı	rks
Answer ALL Questions DADT A = (10  y 1 - 10  Mortes)													
1.	The breaking up of cohesion in a mass of concrete is called CO1- R							1 <b>-</b> R					
	(a) Workability	(b) Bleeding	(c)	Seg	regat	tion			(d)	Cree	р		
2.	For the improvement aggregate recommended	nt of workability of ded is	f co	ncret	te, tl	ne sl	hape	of				CO	1 <b>-</b> R
	(a) Irregular	(b) Angular	(c)	Rou	ınd				(d)	Flak	y		
3.	The minimum thickness of a wall in stone masonry should not be CO2- I less than						2- R						
	(a) 100mm	(b) 200mm	(c)	350	mm				(d)	4501	nm		
4.	A type of bond in a brick masonry consisting of alternate course of CO2- H headers and stretchers is called						2- R						
	(a) English bond	(b) Flemish bond	(c)	Stret	tchin	g boi	nd		(d)	Hea	der b	ond	
5.	The most commonly	used material for dam	np pr	oofii	ng is							CO	3- R
	(a) Bitumen	(b) Paraffin wax	(c)	Cen	nent	solut	tion		(d)	Cem	ent o	conci	rete
6.	The temperature diff be more than	erence between insid	le ar	nd ou	utside	e sho	ould	not				CO	3- R
	(a) $3^{0}$ c	(b) $5^{0}c$	(c)	6 <sup>0</sup> c					(d)	$8^0$ c			

7.	For concreting, the water having pH value			is go	CO	04 <b>-</b> R			
	(a) 5	5	(b) 7	(c) 10	(d) 13	5			
8.	The	major problems i	n R.C.C is			CO	04 <b>-</b> R		
	(a) <b>(</b>	Corrosion	(b) Dampness	(c) Batching	(d) Alkali aggre	egate react	tion		
9.	Soil	should be compa	cted to relative densit	y of		CO	05- R		
	(a) 8	30%	(b) 85%	(c) 90%	(d) 10	0%			
10.	The	removable of silt	in a sea is known as			CO	05- R		
	(a) I	Batching	(b) Dredging	(c) Grading	(d) Cu	utting			
	PART – B (5 x 2= 10 Marks)								
11.	Mer	ntion the concepts	of Mix design.			CO	CO1- R		
12.	Def	ine "Bond".				CO	CO2- R		
13.	. What is dampness? CC								
14.	. What do you mean by grouting? CO								
15.	. Name the equipment used for compaction.					CO	CO5- R		
	PART – C (5 x 16= 80 Marks)								
16.	(a)	Write step by ste method.	ep procedure the Mix	design of concret	e by I.S.	CO1- U	(16)		
	Or								
	(b)	Discuss the facto	ors affecting quality o	f concrete.		CO1- U	(16)		
17.	(a)	Draw the eleva Flemish bond br	tion and plan of one ick wall and explain.	e brick thick Eng	glish bond and	CO2- U	(16)		
	Or								
	(b)	What are the req Brief construction	uirements of good flo on of cement concrete	oor? floor.		CO2- U	(16)		
18.	(a)	Discuss about ve	entilation and air cond Or	litioning.		CO3- U	(16)		
	(b)	Mention the imp Explain the meth	oortance of acoustics in the second s	n buildings.		CO3- U	(16)		

19.	(a)	Brief the causes for deterioration of structures.	CO4-U (16)
		Or	
	(b)	Explain rehabilitation work on multi storey building affected by earthquake.	CO4- U (16)
20.	(a)	Discuss the factors affecting the selection of equipments. Or	CO5-U (16)
	(b)	Explain different equipment used for dredging.	CO5-U (16)