A		Reg. No. :											
		Question Pap	er (	Cod	e: 5	410	2						
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2023													
	Fourth Semester												
	Civil Engineering												
15UCE402 - CONSTRUCTION TECHNIQUES, EQUIPMENTS AND PRACTICES													
(Regulation 2015)													
(IS 10262:2009 permitted)													
Duration: Three hours Maximum: 100 Marks Answer ALL Questions								ks					
PART A - $(10 \text{ x } 1 = 10 \text{ Marks})$													
1.	The breaking up of cohesion in a mass of concrete is called									CO	1 <b>-</b> R		
	(a) Workability	(b) Bleeding	(c)	Seg	regat	tion			(d)	Cree	р		
2.	2. For the improvement of workability of concrete, the shape of CO1 aggregate recommended is								1 <b>-</b> R				
	(a) Irregular	(b) Angular	(c)	Rou	nd				(d)	Flak	у		
3.	The minimum thickness of a wall in stone masonry should not be CO2 less than							2- R					
	(a) 100mm	) 100mm (b) 200mm (c) 350mm					(d) 450mm						
4.	A type of bond in a brick masonry consisting of alternate course of CO2- headers and stretchers is called						2- R						
	(a) English bond	English bond (b) Flemish bond (c)Stretching bond					(d) Header bond						
5.	The most commonly used material for damp proofing is								CO	3- R			
	(a) Bitumen	(b) Paraffin wax	(c)	Cen	nent	solut	tion		(d) Cement concrete				
6.	The temperature diff be more than	erence between insid	e ar	nd ou	utsid	e sho	ould	not				CO	3- R
	(a) $3^{0}$ c	(b) $5^{0}c$	(c)	$6^0$ c					(d)	$8^0$ c			

7.	For concreting, the water having pH valueis good.			CO4- R					
	(a) 5	5	(b) 7	(c) 10	(d) 13	5			
8.	The	major problems	in R.C.C is			CO4- R			
	(a) (	Corrosion	(b) Dampness	(c) Batching	(d) Alkali aggre	egate reaction			
9.	Soil	should be compa	acted to relative densit	y of		CO5- R			
	(a) 8	80%	(b) 85%	(c) 90%	(d) 10	00%			
10.	The	removable of sile	t in a sea is known as			CO5- R			
	(a) l	Batching	(b) Dredging	(c) Grading	(d) Cu	utting			
$PART - B (5 \times 2 = 10 \text{ Marks})$									
11.						CO1- R			
12.	Define "Bond".					CO2- R			
13.	. What is dampness?					CO3- R			
14.	. What do you mean by grouting?					CO4- R			
15.	. Name the equipment used for compaction.					CO5- R			
PART – C (5 x 16= 80 Marks)									
16.	(a)	Write step by st method.	ep procedure the Mix	design of conc	rete by I.S.	CO1-U (16)			
Or									
	(b) Discuss the factors affecting quality of concrete.					CO1-U (16)			
17.	(a)		tion and plan of one rick wall and explain.	e brick thick I	English bond and	CO2-U (16)			
			Or						
	(b)		quirements of good floon of cement concrete			CO2-U (16)			
18.	(a)	Discuss about v	entilation and air conc Or	litioning.		CO3-U (16)			
	(b)	-	portance of acoustics i hods of achieving this	-		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)