		Reg. No. :										
		Question Paper	r Code	e: <mark>59</mark> ′	713	,					·	
	BE	B Tech DEGREE EX	CAMIN	ΑΤΙΟ	NN		202	0				
Fifth Samastar												
		Civil End	incorin	a								
	151100502	DESIGN OF DEINEG		g CON	CDI	TTE	сі б		NTC			
	15UCE505 -	DESIGN OF REINFU		CON	CKI		ELE	IVIEI	N12			
D	tion One have	(Regulati	on 2015)				N/	•		01 4 -	1
Dura	ation: One hour		1 _ ()	Iontra	`			Max	Kimu	m: 3	oma	rks
PAKI A - (0 X I = 0 Marks)												
1.	For R.C.C. member of beam submerged under sea water, the cover should be more than the specified value by								CO	1- R		
	(a) 10 mm	(b) 40 mm	(c) 20	mm			((d) 60	0 mn	1		
2.	Effective cover of the	e beam depends on									CO	1- U
	(a) Diameter of main	reinforcement	(b) Grade of main reinforcing steel									
	(c) Width of the bean	n	(d) All	of the	abo	ove						
3.	For simply supported slab of span 8m, the basic value of L/d value is CO2						2-R					
	(a) 20	(b) 10	(c) [′]	7			(d) 1:	5			
4.	Unit weight of concre	ete is									CO	2- R
	(a) 25 kN/m ³	(b) 10kN/m ³	(c) 15k	N/m ³			((d) 1.	.5kN	$/m^3$		
5.	According to IS 456 rectangular column o	5 :2000 minimum area f size b X D are	of lon	gitudi	nal	reinf	orce	men	t of		CO.	3- U
	(a) 0.008BD	(b) 0.008bD	(0	c) 0.00)6 B	D		((d) 0	.006ł	эD	
6.	long column is one	whose ratio of effect	ive leng	gth to	lea	st la	teral	l din	nensi	ion	CO	3- R
	exceed											
	(a) 5	(b)10	(0	c) 12				((d) 2	0		
7.	In design of isolated	footing, the minimum	percenta	age of	stee	el pro	ovide	ed to	be		CO	4- U
	(a) 0.12%	(b) 0.8%	(0	c) 1%				((d) 8:	5/f _y 9	%	
8.	Which footing is used	d in load bearing maso	nry con	structi	on?						CO	4- R

(a) Isolated (b) Strap (c) Strip (d) Pile

9.	If T and R are tread	CO5- U									
	(a) $2R + T = 60$	(b) $T + 2R = 60$	(c) $2R + T = 30$	(d) $2T + R = 30$							
10.	In a staircase, the v	a staircase, the vertical part of the step is called									
	(a) Riser	(b) Tread	(c) Tread	(d) Waist							
	PART - B (3 x 8 = 24 Marks)										
(Answer any three of the following questions)											
11.	A simply supported 15KN/m. design the Keep the width equ method of design.	CO1- E	(8)								
12.	Design tensional re wide 750mm deep, combined ultimate Assume M-25 grad condition.	CO2- Ana	(8)								
13.	Discuss various ass of compression mer	sumptions used in the nbers.	limit state methods of design	CO3- U	(8)						
14.	Design a suitable transferring 100kN bearing capacity of steel. Adopt limit st	CO4- Ana	(8)								
15.	Design a dog legg between floor is 3.6	ed stair for a buildin m.Assume any relevan	g in which vertical distance t data.	СО5-Е	(8)						