Registration No:]			
Total Number of Pages: 02 B.Tech															
PCI3D001															
Concrete Technology BRANCH: CIVIL Time: 3 Hours Max Marks: 100 Q.CODE: B1219 Answer Question No.1 and 2 which are compulsory and any four from the rest.															
The figures in the right hand margin indicate marks.															
210 Q1		fallou	dna 4	210	lione	· mul	210 tinlo t	tuno e	or do	21 ch fil	u Lun f	vno	210		21(
a)	Answer the find terms of o cement is	xide o	comp	ositio	n, the	e max	cimun	perc	enta	ge of			in the	(2 x 10	')
b)	Total heat of hydration of cement is independent of (a) composition of cement (b) fineness of cement														
c)	The nominal	milet meet er it paecee ameagn a milit te eleve and te retained in a										210			
d) e)	Following cor (a) CaCl ₂ (b) A compacting	Following compounds can be used as accelerators except (a) CaCl ₂ (b) CaSO ₄ (c) NaCl (d) Na ₂ SO ₄ A compacting factor of 0.88 for a fresh concrete sample indicates a mix of													
f) 210 g)	(a) high workability (b) medium workability (c) low workability (d) none of the above According to IS specification, the maximum compressive strength of normal concrete can be (a) 15 MPa (b) 20 MPa (c) 30 MPa (d) 40 MPa The unit weight of plain concrete(in kN/m³) is generally taken as (a) 20 (b) 24 (c) 25 (d) 30										210				
h) i)	The nominal (a) 1:1:2 (b)1 Light weight a (a) bloating c (c) sintering f	mix co :1.5:3 aggreo lays w	orres (c) 1 gates vith o	pondi :2:4 (are p	d)1:3 orodu	:6 ced b	y es (b)		ı blas		ace s	lag			
210 j)	Lower water (a) increases concrete (c) r	ceme	nt rat comp	ressi	ve st	rength	210 1 (b)	impro	ves 1		ost re		210 nce of		210
Q2 a) b)	Answer the to Differentiate I What do you their strength	betwe mear	en po	orly	grade	d and						cemer	nt with	(2 x 10))
210 c) d) e) f) g) h) i)	What do you Name any tw Define segred What are the State Abram's What are the What are the Define dynan	mean o hari gation differ s law. varion facton	mful of corent would be continued and the corent work of the corent wo	consti oncre ays c ctors ecting	tuent te. Ho of wat to be g stren	s of cook it of consingth of consistency of cons	an being of	t. e avoi f cond	rete? nix de	esign1	?		210		210
Q3 a) b)	Explain settin Explain heat												nt. 210	(8) (7)	210

210	210	210	210	210	210	210	210
	Q4 a	determine?					10) (5)
210	Q5	What are the diff concrete? Explain a	erent tests con	ducted to deter	rmine the work	cability of (15) 210
	Q6	Differentiate among Explain the factors			sile strength of	concrete. (15)
	Q7 a	measurement of ult	rasonic pulse vel	ocity test.	e factors affe		10) (5)
210	210 Q8	What do you mean design of concrete l	by mix design of	210	ain the IS meth	210	15)
210	Q9 a b c c 210 d e) Workability of concil) Quality control of concil) Types of admixures	ncrete rete oncrete	210	210	(5	x 3)
210	210	210	210	210	210	210	210
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