## Civil/IV/CDGS/CT

QP Code: NP-19821

(3 Hours)

[Total Marks: 80

		Instructions: 1. Question no. 1 is compulsory and solve any three questions out of	
		Ternaining five questions.	
		2.Draw neat sketches wherever necessary.	
	80	3. Figures to the right indicates full marks.	1
	1/-		
	1(a)		20
	(b)	Explain in brief any four properties of Ordinary Portland Cement.	1-0
	(c)	explain in brief fineness modulus of coarse and fine aggregator	
	(d)	Define high performance and high strength concrete	4.0
	(e)	What are the mineral admixtures? Explain in brief.	
	) / - \	Eventain in the state of the st	
1	(a)	Explain in detail various properties of hardened concrete.	.10
	(b)	Explain in detail various factors affecting workability of concrete.	10
3	(a)	Explain in detail manufacturing	
	(b)	Explain in detail manufacturing process of concrete in RMC plant.  Explain step by step procedure to desire to desir	10
	1-7	Explain step by step procedure to design concrete mix for compressive strength as per IS: 10262.	10
4	(a)	Enlist any five types of chemical admiytures	
	(b)	Enlist any five types of chemical admixtures commonly used and explain them in detail.  What is NDT of concrete? Explain any one method of NDT with sketch in detail.	10
	5 151	The first of the first of the first sketch in detail.	10
5	(a)	Explain the effect of aggregate properties on concrete quality.	
	(b)	Explain in detail Hot weather and cold weather concreting.	7
n 11	(c)	What is durability of concrete? Expiain the effect of W/C Ratio on durability of concrete.	6
	Tel		
6	u	Write short notes on the following	20
	The state of the s	(a) Roller compacted concrete.	20
		(b) Distress in concrete structures.	
		(c) Ferrocement.	
		(d) Fibre reinforced concrete	
		(e) Explain concept of retrofitting.	
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