Tota	l No	o. of Questions : 4] SEAT No. :				
PB	9	[6268]-203 [Total No. of Pages : 2				
		S.E. (Civil) (Insem)				
	CONCRETE TECHNOLOGY					
		(2019 Pattern) (Semester - IV) (201010)				
Time	e : 1	Hour] [Max. Marks: 30				
Instr	ructi	ions to the candidates:				
	<i>1</i>)	Answer Q.1 or Q.2, Q.3 or Q.4.				
	<i>2</i>)	Figures to the right indicate full marks.				
	<i>3</i>)	Neat diagrams must be drawn wherever necessary.				
	<i>4</i>)	Use of non programmable calculator is allowed in the examination.				
	<i>5</i>)	Your answers will be valued as a whole.				
	6)	If necessary assume suitable data and indicate clearly.				
		6.				
Q1)	a)	Explain wet process of manufacturing of Portland cement. [5]				
~	b)	Enlist: [4]				
	- /	four types of cement and				
		ii) four cement manufacturer in India				
		(ii) Tour cement manuracturer in mura				
	۵)	Colculate the finances modulus for following data obtained from the				
	c)	Calculate the fineness modulus for following data obtained from the				
		sieve analysis on the sample of aggregate. Total weight of aggregate				
		taken for sieve analysis = 1000 gm [6]				
		Sieve Size (mm) 4.75 2.36 1.18 0.6 0.3 0.15				
		Weight retained (gm) 0 100 250 350 200 100				
		(o ^V OR ; ^C				
Q2)	a)	Classify the admixture and explain in brief any two of them. [6]				
~ /	/	9.				
	b)	Give examples of plasticizer and super-plasticizers. [4]				
	c)	Explain air entraining agents and factors affecting amount of air				
	C)					
		entrainment in a mix. [5]				
00	,					
Q3)	a)	Enlist factors affecting workability of concrete and explain in brief any				
		two of them. [6]				
	b)	Enlist methods adopted for compaction of the concrete and explain				
		compaction by vibration. [5]				
	c)	Give broad classification of methods adopted for curing of the concrete				
	,	and explain water curing method. [4]				
		[1]				

OR

Q4)	a)	Enlist tests commonly employed to measure workability and slump of test in detail.	(6)
	b)	What do you meant by segregation and bleeding of concrete?	[4]
	c)	Explain the effect of admixture on workability of concrete.	[5]
		Explain the effect of admixture on workability of concrete.	
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