Total	l No	of Questions : 4]		30	SEA	AT No. :		
PA-4958			رممور، م	À2		[Total	No. of Pa	ages: 2
[6008] 203 S.E. (Civil) (Incom)								
S.E. (Civil) (Insem) CONCRETE TECHNOLOGY								
(2019 Pattern) (Semester-II) (201010)								
		(201) Latter II	y (Seme	Stc1-11	) (2010	)1U)		
		Hour]				[1	Max. Ma	rks:30
		ons to the candidates:						
	1)	Answer Q.1 or Q.2, Q.3. or Q.4						1
	2)	Figures to the right indicate fi						
3) Neat diagrams must be drawn wherever necessary.								<b>)</b>
<ul> <li>4) Use of non programmable calculator is allowed in the examination.</li> <li>5) Your answers will be valued as a whole.</li> <li>6) If necessary assume suitable data and indicate clearly.</li> </ul>								
6) If necessary assume suitable data and indicate clearly.								
				<b>N</b>				
Q1)	a)	Explain the field testing of cement [5						
	b)	Enlist:			<b>»</b>			[4]
		i) Four types of cement and						
		ii) Four cement manufacturer in India.						
c) Calculate the fineness modulus for following data obt							from the	e sieve
	analysis on the sample of aggregate. Total weight of aggregate ta							cen for
	sieve analysis= 1050 gm.							
		Sieve Size (mm)	4.72	2.36	1.18	0.6	0.3	0.15
		Weight retained (gm)	0	250	250	250	200	100
						0'	\$.	[6]
	• ]							[Մ]
			OR		00	100		
Q2)	a)	Explain the role of admixt	3	10 K		[4]		
<ul><li>b) Classify the admixture and explain in brief any two of the</li><li>c) Explain air entraining agents and factor affecting amount of in a mix.</li></ul>							n.	[6]
							air entrai	inment
								[5]
	26.							
				×,				P.T.O.

List the sequential stages in manufacture of concrete and explain batching **Q3**) a) of concrete. [6] Define the workability of concrete and explain any two factors affecting b) the workability of concrete. [4] Give broad classification of methods adopted for curing of the concrete c) and explain water curing method. [5] OR Explain compaction factor test for measuring workability of concrete.[6] **Q4**) a) Suggest the degree of workability for the following situation: b) Concrete used for road structures vibrated by power operated i) machine. Concrete used for road structures vibrated by hand operated machine. Normal reinforced concrete manually compacted. iii) For pumping and tremte placing of concrete. Write short note on segregation and bleeding of concrete. c) [5]