Total No. of Questions : 4]				3	SEA	AT No. :		
PA-4958			ر در ۱۹۵۱ ک	02		[Total	No. of Pa	iges: 2
[6008]-203 S.E. (Civil) (Insem)								
CONCRETE TECHNOLOGY								
(2019 Pattern) (Semester-II) (201010)								
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		Hour]					Max. Mai	rks:30
		ons to the candidates:	4					
	1) 2)	Answer Q.1 or Q.2, Q.3. or Q.						
2) Figures to the right indicate full marks.3) Neat diagrams must be drawn wherever necessary.								
4) Use of non programmable calculator is allowed in the examination.								
5) Your answers will be valued as a whole.								
6) If necessary assume suitable data and indicate clearly.								
Q 1)	a)	Explain the field testing of	f cement,		Q.			[5]
	b)	Enlist:	, 0	5/ 5	·			[4]
i) Four types of cement and								
	ii) Four cement manufacturer in India.							
	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= 1050 gm.						
		Sieve Size (mm)	4.72	2.36	1.18	0.6	0.3	0.15
							(A)	
		Weight retained (gm)	0	250	250	250 Y	200	100
OR OR								
Q2)	a)	Explain the role of admixture in concrete. [4]						
	b)	Classify the admixture and explain in brief any two of them. [6]						
	c)	Explain air entraining agents and factor affecting amount of air entrainment						
	- /	in a mix.	7			[5]		
	Sp. v							
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				×,				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. iii) Normal reinforced concrete manually compacted. For pumping and tremle placing of concrete. Write short note on segregation and bleeding of concrete. c) [5] And the state of t