6TH SEM. /CIVIL / 2023(S)

TH-4 Concrete Technology

		(09)		
	Full Ma		Time- 3 Hrs	
		Answer any five Questions including Q No.1& 2		
		Figures in the right hand margin indicates marks		
	1.	Answer All questions	2 x 10	
	a.	What do you mean by nominal mix.		
	b.	What is hydration of cement ?		
	с.	Define fineness modulus ?		
	d.	What do you mean by efflorescence ?		
	e.	What are the types of deterioration ?		
	f.	What are the types of deterioration ? What is the effect of sulphate if present in concrete? What do you mean by accelerator? What is gunitting ?		
3	g.	What do you mean by accelerator?		
	h.	What is gunitting ?		
	i.	Define creep and shrinkage of concrete?		
	j.	What is workability of concrete?		
		0136		
	2.	Answer Any Six Questions	6 x 5	
	a.	Explain about types cement?		
	b.	Write the short notes on shotcrete concrete and ready mix concrete.		
	c.	Explain about different types of admixtures? Write the difference between nominal and design mix concrete What are the types of formwork ? What are various factors causing variation in quality of concrete?		
	d.	Write the difference between nominal and design mix concrete	140	
	e.	What are the types of formwork ?		
	f.	What are various factors causing variation in quality of concrete?		
	g	How cracks are repaired in concrete?		
	220	How cracks are repaired in concrete?		
-03-4	3	Write down different tests of cement ?	10	
3203-29	4	Write the requirement of mix design and give a brief about I.S. code method	hod 10	
	5	of mix design. What are the methods to determine workability of concrete?	10	
	6	Explain about deterioration of concrete and its prevention?	10	
	7	What is inspection and testing and durability requirement as per I S 456?		
	,	1	10	