5TH SEM ./ CIVIL./ 2023(W) NEW

Full Marks: 80

Th-4 Water Supply & Waste Water Engineering

Time- 3 Hrs

			Answer any five Questions including Q No.1& 2 Figures in the right hand margin indicates marks	
	1.	An	swer All questions	2 x 10
		a. Ex	plain the term per capita demand.	
		b. W	hat are the available sources of water?	
		c. De	fine yielding of well.	
		d. W	hat is sewage?	
		e. De	fine sewage farming.	
		f. W	hat is screening?	
		g. Wl	hat are the impurities in water?	
		h. De	fine slow sand filter.	
		i. Wl	hat are the different methods of calculating population growth?	
	_1	j. Wl	hat is self cleaning velocity?	
			109	
	2.			6 x 5
			plain break point chlorination.	
			termine the velocity of flow in a circular sewer of diameter	
			Ocm. laid on slope of 1 in 500 while running full, by using Chezy's	
			rmula. The value of C=70	
			rite a short note on rapid sand filter.	
		-	plain with neat sketch the working operation of a "trickling er".	
		e. De	scribe the physical test of water briefly.	
		f. Ex	plain about the surface sources of water supply.	
		g W	plain about the surface sources of water supply. hat is confined & unconfined aquifer? Explain.	
	3	De	scribe the various methods of water distribution system.	10
	4	Dr	aw the flow diagram of water treatment system and describe	10
		ea	ch unit.	
. 1	5	Wı	rite down the constructional features and working principle of	10
.007-		Ra	pid sand filter.	
5201-2	6		and the process of program, and the process of the	10
			a flow diagram.	
	7	De	scribe about the factors affecting per capita demand.	10