

Water Supply And Sanitary Engineering By G.s. Birdie Pdf Free 80

	R	Registration No :				
Tot	al Nu	umber of Pages: 02				M.Tec P1ESBC0
		1 st Semester I	Regular / Back E	Examination	2018-19	
		WAT	ER SUPPLY EN	GINEERING		
		BRANCH: ENVIORN EN	IGG., ENVIRON	MENTAL SCI	ENCE AND ENGG	
			Time: 3 Ho	urs		
			Max Marks :			
6 <u>2</u> 070			Q.CODE : E			
Ar	iswe	er Question No.1 (Part-1) wh			IT from Part-II and	any TWO
		Lectareno	from Part-I	33.55		
		The figures in t	he right hand n	nargin indica	te marks.	
			Part- I			
Q1		Short Answer Type Question		ì		(2 x 10)
	a) Define per capita water demand. How is it calculated?					
	 b) Name the layouts of water distribution system. c) Write down the chemical reaction when alum is used as a coagulant. d) What are carbonate and noncarbonate hardness? e) What is a perched aquifer? Show with a neat sketch. f) Define detention time and flow through time for a sedimentation tank? Define displacement efficiency. g) What do you mean by chlorine demand of water? h) Which factor governs the design of a rapid gravity filter? 					
						е
	i)	i) What is deflouridation? Explain.				
	j) What are the basic functions of an intake well?					
Part- II						
Q2	2220	Focused-Short Answer Type Questions - (Answer Any Eight out of Twelve) (6:				
	a) Enumerate the factors affecting per capita water demand.					
	82	b) Briefly discuss about break point chlorination with a neat sketch.				
	c) Define shallow and deep open well. What is cavity formation in well? How does it affect the yield of an open well?					et.
	d) Write short note on intake towers with neat sketches.					
	e) Explain the purpose of aeration in water treatment. What are its limitations?					
	f)	 f) Discuss about the mechanisms of filtration. g) Discuss about water hammer pressure. How it is created in a Pipe. How can you 				
	g)					
	prevent it? • Previous the Hardy Cross method of solving the pine network Derive the expression					50
	h)	Explain the Hardy Cross method of solving the pipe network. Derive the expression you use for correction of the assumed flow.				
	i)	Define an aquifer. Briefly discuss about the various types of aquifer with neat sketch.				
	j) The following is the population data of a city available from past census records. Determine the population of the city in 2021 by (a) arithmetical increase method (b)					5.
geometrical increase method.						
		year 1941	1951 1961 19	971 1981 1	1991 2001	
		Population(lakhs) 1.21			6.81 7.41	
			T-74 12		5- 5- W	

k) Briefly discuss how can you determine the BOD of a wastewater sample in the laboratory.

I) In two periods of15 years, a city has grown from 35,000 to1,80,000 and then to 3,50,000. Determine:

i) the saturation population;

ii) the equation of logistic curve;

iii) the expected population after the next 15 years.

Water Supply And Sanitary Engineering By G.s. Birdie Pdf Free 80



water supply and sanitary engineering by g.s. birdie pdf

water supply and sanitary engineering by g.s.

water supply and sanitary engineering book by gs birdie pdf

water supply and sanitary engineering by gs birdie free download

1dff872cbc