

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : CE(PC)402 Environmental Engineering-I UPID : 004446

Time Allotted: 3 Hours

construct a distribution reservoir . The pattern of draw off is as under :

Full Marks:70

The Figures in the margin Indicate full marks. Candidate are required to give their answers in their own words as far as practicable

		Canaidate are	e required to give their o	answers in the	ir own words as far as practicable	
			Group-A (Very Sh	ort Answer 1	ype Question)	
1. Aı	nswer (I)	any ten of the following According to IS: 1172- schools.	g: · 1963, a minimum of	litres of	water per head per day is required for B	[1 x 10 = 10] oarding
	(11)	, scrioois.				-
	What is the design period for the water treatment unit?					
	(IV)	What is the upper surface of the zone saturation called? The permissible limits of a second saturation called?				
	The permissible limit of turbidity of domestic water is ppm.					
	the period for which the water is stored in a sedimentation tank is called					
	(V) The pathogenic bacteria do not last long at a pH (V) The process of burning of municipal solid waste at high temperature is called					
	(VIII)	The total bands are of	g of municipal solid was	te at high tem	perature is called	
		a) Soft, b) Moderately	water is 100ppm as CaC hard, c) Hard, d) Very h	:O3 equivalent hard	t. What is the type of water?	
	/	Aeration of water is de	one to remove			
	(20)	(XI) What is the fire demand of the city of 1lakh population by Buston's formula? (XII) What is all				
	• •	The size of suspended	solids lies in the range of	of		
	(7.11)	What is the concentra	tion of H+ ions in moles,	/L in water if t	the pOH value is 6?	
			Group-B (Shor			
,	Answer any three of the following:					5 x 3 = 15 }
,2. 2	The state of the s					[5]
3.	But a solid Waste Mariageritetit System.					[5]
4.	water demand.					(5)
-	5. Draw a flow chart of Ground water treatment system.					[5]
6.	Wha	t is break-point chloring	ation?			[5]
			Group-C (Long	Answer Type	e Question)	
	Answer any three of the following:					15 x 3 = 45]
7.		e short note on:				[15]
		dore Method of Compo				
		ingalore Method of Co	, -			
8./	/(a) E	eatment and disposal of Explain in three metho merits?		uture populat	ion of a city . what are there relative	[5]
	(b) a	assuming the geometri	-		town , calculate the population of the ecords of the population .	[10]
		year	1951	1961	1971	
		Population on thousand	258	495	735	
9.		ain the factors governing		ticular source	of water.	[15]
		•	•		er per day in 24 hours period , the filter is	
	back	washed at a rate of a entage of treated water	10 I/sq m/sec . for 15	min compute	the average filtration rate quantity and rash water flow in each trough. assume 4	
11.		-	mall rural town with th	e daily requir	ement of 2,25,000 liters it is proposed to	[15]

7.00 A.M-----8.00 A.M 30% of day's supply
8.00 A.M-----5.00 A.M 35% of day's supply
5.00 A.M ----6.30 A.M 30% of day's supply
6.30 A.M-----7.00 A.M 5% of day's supply
The pumping is to be done at a constant rate of 8 hours per day (8 A.M to 4 P.M)
Determine the storage capacity of the reservoir.

*** END OF PAPER ***

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