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F	leg.	No:								]		
		SIDD	HARTH	INSTITU	<b>FE OF ENG</b>	INEERIN	IG & '	ТЕСН	NOI	┘ ∠OGY:: PU′	TUR	
	(AUTONOMOUS)											
			B.Tech I	V Year I S	Semester Su	pplement	ary Ex	xamina	tion	s July-2022		
				EN	VIRONME	NTAL EN	GINE	ERIN	G			
T		2.1			(Civi	l Engineeri	ng)					<b>C</b> 0
												: 60
				(Ans	swer all Five	Units 5 x	12 = 6	<b>0</b> Mark	(s)			
1	я	List ou	t the vari	ous metho	ds of popula	UNII-I tion foreca	sting :	and ext	lain	any two met	hods in	6M
-	detail.										inous m	0111
	b	Draw t	he flow cl	hart of pub	lic water sup	oply system	1.					6M
2	<b>UK</b> The populations of 5 decades from 1960 to 2000 are given below in table. Find out the $12N$											12M
4	pop	population 2010, 2020 & 2035 beyond the last known decade. By										
	(i) Arithmetic increase method											
	(ii) Geometrical method											
		Y	ear	1960	1970	1980		1990		2000		
		Po	pulation	25000	28000	34000	4	42000		47000		
<b>3</b> a Draw the layout and general outline of surface and subsurface water treatme b Briefly explain the Lime and or Zeolite presses of water softening									treatment pl	ant.	6M 6M	
	OR Briefly explain the Lime soda or Zeolite process of water softening. 6N											UIVI
4	<b>4 a</b> Write short notes on methods of coagulant feeding.											<b>6</b> M
	<b>b</b> List the types of chlorination and explain break point chlorination in detail.											6M
5	UNIT-III											6M
3	<b>b</b> Compare between conservancy system and water carriage system.									uistitutioli	system.	6M
		1			5 5	OR	C C					-
6	a	Discus	s in brief	the various	factors affe	cting the di	y wea	ther flo	OW.			6M
	<b>b</b> Write a note on different types of sewer.											6M
7	а	Design	a prima	rv sedime	ntation for	treating 1	MLD	of wa	stew	ater. Make	suitable	6M
		a sumptions.										
	b	Draw the schematic diagram of typical sewage treatment plant and explain it. 6										
8	я	OR a Compare between the conventional rate filter and high rate filter										
<ul><li>b Mention the advantages and disadvantages of oxidation ponds.</li></ul>											6M	
	UNIT-V											
<b>9 a</b> What do you understand by 'sludge digestion'?												6M
<b>b</b> Explain the methods of dewatering the sludge on sludge drying beds.									5.		6M	
10	a	Mentic	on the vari	ous metho	ds of sludge	disposal a	nd exr	olain ar	ıy tw	o methods of	f sludge	6M
-	_	disposa	al.		01	<b>.</b>	I		•		0	
	b	With n	eat sketch	, explain tl	he process of	f dispersior	n trenc	h.				6M

\*\*\* END \*\*\*