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		Reg. No. :	3) 3.1	
		Question Paper Code: 30094		
		B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.		•
		Third Semester of a extrapolate (1)		^ .
		Civil Engineering		
		CE 3303 — WATER SUPPLY AND WASTEWATER ENGINEERIN	NG	
		(Regulations 2021)		
	m.		100 mayles	
	Time	Summarize the sower appears and in the sower, the column	(d)	
		Answer ALL questions.		
		PART A — $(10 \times 2 = 20 \text{ marks})$		
		Name the various sources of water.		
		What is meant by potable water?		
		Give the types of aerators.		
		Define defluoridation.		
		Mention any two methods of water distribution network with its layo	ut.	
		State the components of service connection pipe.		
		Enlist the materials used for constructing sewer pipes.		
	8.	Write down the plumping systems of sewage.		
	9.	What are the advantages of UASB reactor?		
	10.	List out any four standards for discharges of sewage in surface water	source.	
		PART B — $(5 \times 13 = 65 \text{ marks})$	(0)	
	11.	(a) (i) Describe the factors affecting the rate of water demand.	(6)	
		(ii) Enumerate water borne diseases.	(7)	
		Or	(10)	
		(b) Examine the river intake and canal intake.	(13)	
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12.	(a)	Discuss the slow sand filter and rapid sand filter with suit diagram.	(13)
		Or	
	(b)	Elaborate the methods used for removal of iron and manganese water.	from (13)
13.	(a)	Classify various types of reservoirs with its function.	
		BELLEVE DECREES Or	
	(b)	(i) Categorize the pipe fittings used in distribution network with sketch.	neat (6)
		(ii) Analyze water detection methods.	(7)
14.	(a)	(i) Demonstrate the characteristics of sewage.	(6)
		(ii) Explain how to estimate sanitary sewage flow?	(7)
		Or	
	(b)	Summarize the sewer appurtenances used for sewerage system.	(13)
15.	(a)	Illustrate the working of trickling filter with its merits and demerits. Or	(13)
	(b)	Identify various stage of sludge digestion process and write hor dispose digested sludge.	w to (13)
		PART C — $(1 \times 15 = 15 \text{ marks})$	
16.	(a)	Outline the physical and chemical analysis of drinking water.	(15)
		get sheft as sens the meanding. Or tow to about on own you notine to	
	(b)	Assess the working of activated sludge process with flow diagram.	(15)
		Write down the plumping	
		(d) Examine the river letable and canal optable.	0094