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## B.Arch, Seventh Semester (Architecture Engineering) (CGS) 10058: Environment Services - I: 7 AR 02

P. Pages : 2 Time : Three Hours				<b>AU - 2963</b> Max. Marks : 80	
	Note	s: 1. 2. 3. 4. 5. 6. 7.	All question carry marks as indicated.  Answer four question.  Question No. five is compulsory.  Due credit will be given to neatness and adequate dimensions.  Assume suitable data wherever necessary.  Illustrate your answer necessary with the help of neat sketches.  Use of pen Blue/Black ink/refill only for writing the answer book.		
1.	a)		be with neat sketches underground Source's of water and explain how water on has takes place in them?	8	
	b)	Disting	uish between Gravity system and pumping system of water supply?	6	
	c)	Describ scheme	e "River" as a principle source of water supply for most of the water supply?	6	
			OR		
2.	a)	Explain	the systems of water supply?	7	
	b)	Describ	e the various sources of water pollution?	6	
	c)		e with neat sketches the different types of surface irregation methods used for disposal.	7	
3.	a)	Describ	e with neat sketches the important stage's involved in sewage treatment?	10	
	b)	Compai	r Grid - iron system with dead end system?	5	
	c)	State th	e preventive measures to avoid the water pollution?	5	
			OR		
4.	a)		e with neat sketches the various types of rain water harvesting system used for types of roofs?	9	
	b)		agulation of water is carried out for water purification and how will you carry out tion of water?	6	
	c)	State the	e different point to be consider while locating sewage treatment plant.	5	

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5.		Describe with neat sketches any four of the following of:		
		1) Storm water disposal systems.		
		2) Solid - waste Jisposal in multi - storied building.		
		3) Disposal of sewage by dilution.		
		4) Recycling methods of Garbage disposal,		
		5) Filtration of water.		
		6) Vermicomposition.		
		7) "Sewage Sickness"		
6.	a)	Describe with the help of neat sketch the importance and working of oxidation - pond?		
	b)	Why disinfection of water is to be carried out and explain various type's disinfectants used in the process of disinfection?		
	c)	Explain "physical" water pollution? Why it is not desirable in water?	7	
		OR		
7.	a)	Explain the function, working of a "Bio-gas" plant?		
	b)	Describe with near sketch the sewage disposal systems in unsewared localities?		
	c)	Explain Drainage disposal in high - rise building?		
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