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GUJARAT TECHNOLOGICAL UNIVERSITY RE - SEMESTER-V (NEW) EXAMINATION - SUMMER 2019

BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2019			
Subie	Subject Code: 2151306 Date: 17/06/202		
Subject Name:Municipal Engineering			
Time: 02:30 PM TO 05:00 PM Total Marks:			70
Instructions:			
1. Attempt all questions.			
2. Make suitable assumptions wherever necessary.			
3. Figures to the right indicate full marks.			
Q.1	(a)	Draw a neat flow diagram of water supply scheme.	03
X	(b)	Differentiate between Gravity system & Pressurized system of water	04
		supply.	
	(c)	Enlist and explain the factors affecting the demand of water.	07
0.2	(a)	Define: (1) Storm water (2) Infiltration (3) Porosity.	03
Q.2	(a) (b)	State the design periods for different components of water supply	03 04
	(0)	scheme.	04
	(c)	Explain the different sources of water for water supply.	07
		OR	
	(c)	Prepare a list of pumps used in water supply and explain any two.	07
Q.3	(a)	Write a short note on fire Hydrants.	03
Z	(b)	Differentiate between Separate sewerage system & Combined sewerage	04
		system.	
	(c)	Enlist the types of layout for water distribution systems and explain any	07
		two in detail.	
0.1		OR	03
Q.3	(a) (b)	Write a short note on meters. Differentiate between drains and sewers.	03 04
	(D) (C)	Give the procedure for laying of sewer lines.	07
	(0)	Sive the procedure for huging of sewer lines.	07
Q.4	(a)	Define the term (1) Self-cleansing velocity (2) Dry weather flow (3) Soil	03
		pipe.	
	(b)	Write a short note on sluice valve.	04
	(c)	Draw a neat sketch of lake intake and explain its working. OR	07
Q.4	(a)	Define: (1) Invert (2) Non-scouring velocity (3) Grey water.	03
X	(b)	Write a short note on Air relief valves.	04
	(c)	Explain the river intake with the help of a neat sketch.	07
05	(-)		0.2
Q.5	(a)	What are the requirements of a good trap?	03
	(b)	Write down the factors affecting the quantity of storm water.	04
	(c)	List of various sewer appurtenances and explain drop manhole with neat sketch.	07
		OR	
Q.5	(a)	Enlist the different types of pipe materials and explain any one.	03
L ¹⁻	(b)	With the help of a neat sketch explain inverted siphon.	04
	(c)	Explain the system of plumbing.	07
