Seat No.:	Enrolment No.
Jean 110	Linoinent 140.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV(NEW) EXAMINATION - WINTER 2022

Subject Code:3141312	Date:17-12-2022
----------------------	-----------------

Subject Name: Municipal I	ıngın	eering
---------------------------	-------	--------

Time:10:30 AM TO 01:00 PM	Total Marks:70
---------------------------	----------------

Instructions:

1.	Attemp	t all	questions.	

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

	4.	Simple and non-programmable scientific calculators are allowed.	Mark
Q.1	(a)	Draw a neat flow diagram of water supply scheme.	03
•	(b)	11.	04
	(c)	Enlist and explain the factor affecting the demand of water.	07
Q.2	(a)	Define the following terms: (i) sewage (ii) storm water (iii) infiltration	03
	(b)	With the help of a neat sketch write a short note on Manholes.	04
	(c)	Give the classification of sources of water. Explain each source in brief. OR	07
	(c)	Write a short note on Importance and reliability of Water works.	07
Q.3	(a)		03
	(b)	Write down the difference between: Gravity system and pressurized system of water supply	04
	(c)	What are the factors on which location of intake works depend? Draw a neat sketch of river intake and explain its working. OR	07
Q.3	(a)		03
	(b)	•	04
	(c)		07
Q.4	(a)	Draw a diagram of Dead end system.	03
	(b)	• • • • • • • • • • • • • • • • • • • •	04
	(c)	Explain construction and working of Gate Valve with neat sketch. OR	07
Q.4	(a)	What is coefficient of runoff?	03
	(b)	Define the terms: (i) Self-cleaning velocity (ii) Non scouring velocity (iii) Invert (iv) Sullage	04
	(c)	Explain the following with neat sketch: [1] Spigot & Socket joint [2] Expansion Joint	07
Q.5	(a)	Write a short note on "Traps"	03
	(b)	What do you understand by continuous and intermittent supply system of water?	04
	(c)	Enlist various systems used in House Plumbing. Explain any one in detail. OR	07
Q.5	(a)	Enlist different types of sewer joints.	03
~	(b)	Enlist the requirements of good meter.	04
	(c)	Enlist different types of Materials for Sewers. Explain any two in detail.	07