

seat NostRanker.com

er's choice www.FirstRanker.com www.FirstRanker.com GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- V (New) EXAMINATION - WINTER 2019

Subject Code: 2151306 Date: 06/12/2019

Subject Name: Municipal Engineering

Time: 10:30 AM TO 01:00 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)	Narrate the different sources of water for water supply in a town.	03
	(b)	Write a short note on "Fluctuations in Water Demand".	04
	(c)	Explain the layout of water treatment plant with neat sketch.	07
Q.2	(a)	Enlist different types of pipes used for water supply.	03
	(b)	Write a short note on "Partial Consumptive Use of Water".	04
	(c)	Explain the different factors affecting the water demand.	07
		OR	
	(c)	Define water demand & explain different types of water demand.	07
Q.3	(a)	Write design periods of important Components of water supply scheme.	03
	(b)	Differentiate between Separate System & Combined System of Sewerage System.	04
	(c)	Enlist different types of materials for Sewers. Explain any one in detail.	07
		OR .	
Q.3	(a)	Enlist the various pipe joints and briefly explain any one.	03
	(b)	Enlist the different types of sewer sections & explain any one with neat sketch.	04
	(c)	Write a note on 'Sewer cleaning equipment and devices.	07
Q.4	(a)	Define: (i) Storm water (ii) Self cleansing velocity (iii) Plumbing System	03
	(b)	State the factor affecting storm sewage.	04
	(c)	Explain different layout of distribution network with their relative merits and	07
	(-)	demerits.	
		OR	
Q.4	(a)	Define: (i) Sewage (ii) Manhole (iii) Run Off	03
	(b)	Discuss partially ventilated single stack plumbing system for house drainage.	04
	(c)	How will you find out the capacity of elevated service reservoir?	07
Q.5	(a)	Enlist various sewer appurtenances.	03
	(b)	Differentiate between: Conservancy system and Water carriage system.	04
	(c)	Explain Lake Intake with a neat sketch showing all the components.	07
		OR	
Q.5	(a)	Give the classification of pumps.	03
	(b)	Differentiate between: Gravity system and pressurized system of water supply	04
	(c)	Write a short note on: Canal Intake.	07
