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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-V (NEW) EXAMINATION - WINTER 2018** 

Subject Code:2151306 Date:07/12/2018

**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			03
	(b	Explain the terms: (i) Coefficient of runoff (ii) Time of concentration (iii)	04
	(c)	Black water (IV) Grev water	
	(0)	Enlist the types of layout for distribution system and explain any two.	07
Q.2	(a)	and the control of pipe materials and explain any one	03
	(b)	With the help of a neat sketch explain different types of springs	03
	(c)	Write a short note on Drop manhole along with a neat sketch  OR	07
	(c)	With the help of a neat sketch, explain the River intake,	07
Q.3	(a)	Explain lake as a source of water considering the quality and quantity of water.	03
	(b)	Enlist the different types of water demand of city or town and explain any one.	04
	(c)	With the help of net sketch write a short note on Centrifugal pumps along with its advantages and disadvantages.	07
		OR	
Q.3	(a)	Write a note on infiltration wells	
	(b)	Differentiate between gravity system and pumping system for water supply.	03
	(c)	Enlist and explain the factors affecting water demand	04 07
Q.4	(a)	Define the terms: Invert, Sewer, Sewerage	0.3
	(b)	Write a short note on Fire Hydrants	03
	(c)	Write short notes on:	04
		(1) Sluice valves	07
		(2) Air relief valves	
0.4		OR	
Q.4	(a)	Explain the difference between drains and sewers.	03
	(b)	Enlist the factors affecting the quantity of storm water	04
	(c)	Differentiate between Separate and combined Sewerage system	07
Q.5	(0)		
Q.5	(a)	Explain the term self cleansing velocity in sewer.	03
	(b)	Explain the difference between one pipe and two pipe system of plumbing.	04
	(c)	With the help of a neat sketch explain inverted siphon.	07
0.5	(0)	OR	0,
Q.5	(a)	Enlist the requirements of a good trap.	03
	(b)	write a note on 'laying of sewers'	
	(c)	What are storm relief works? Explain any one with a neat sketch.	04