GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015

Subject Code: 2151306 Subject Name: Municipal Engineering Time:10:30am to 1:00pm Instructions: Date:08/12 Total Mar			8/12/ 2015 Marks: 70	
Q.1	(a)	What is the importance and necessity of water supply scheme? Draw a neat sketch of Water supply scheme. Write a note on Sanitary works.	07 07	
Q.2	(b) (a)	Enlist the surface water sources. Discuss each with respect to its quality and quantity.	07	
	(b)	Define the following: [1] percolation [2] pellicular water [3] Aquiclude [4] Anti Siphonage Pipe [5] Invert [6] Lateral Sewer [7] Porosity OR	07	
	(b)	Differentiate between [i] Conservancy system and Water carriage system [ii] Gravity system and pressurized system of water supply.	07	
Q.3	(a)	Enlist the different types of water demands. Explain domestic demand & Fire demand.	07	
	(b)	Give the classification of pumps. Explain Rotary pump with its merits and demerits.	07	
Q.3	(a)	OR List down the materials used in manufacturing of pipes for water supply. Explain any two in detail.	07	
	(b)	Write a note on sewer joints.	07	
Q.4	(a) (b)	Explain [i] Reservoir Intake [ii] Canal Intake What are the requirements of good distribution system? Explain gravity system with neat sketch.	07 07	
		OR		
Q.4	(a) (b)	Write a note on 'Sewer clearing equipment and devices'. Explain [i] Street Inlet [ii] Flushing Tanks.	07 07	
Q.5	(a) (b)	Explain the system of plumbing. Enlist different storm water relief works. Explain any two with sketch. OR	07 07	
Q.5	(a) (b)	With a neat sketch explain construction and working of sluice valve. Write a note on Infiltration Gallery. Explain yield of an artesian well.	07 07	
