GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V (NEW) - EXAMINATION – SUMMER 2016Subject Code:2151306Date:13/05/2016Subject Name:Municipal Engineering Time:02:30 PM to 05:00 PMTotal Marks: 70Instructions:1. Attempt all questions.1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a) (b)	<ul> <li>Define the following terms.</li> <li>(i) Manhole (ii) Combined Sewer (iii) Aquifer (iv) Water Bearing Stratum (v) Per capita demand (vi) Design period (vii) Porosity Define the following terms.</li> <li>(i) Infiltration (ii) Self cleansing velocity (iii) Non scouring velocity (iv) Dry weather flow (v) invert (vi) storm water (vii) sewage</li> </ul>	07 07
Q.2	(a) (b)	Highlight the factors affecting the site selection for intake works from rivers. Prepare a list of pumps and explain any two with sketch. <b>OR</b>	07 07
	<b>(b</b> )	Explain water cycle with neat sketch.	07
Q.3	(a) (b)	Prepare a list of different types of valves used in water supply and explain any two in brief with neat sketch. Draw a neat sketch of Lake intake and explain its working.	07 07
	(0)	OR	07
Q.3	(a) (b)	With the help of neat sketch explain any system of water distribution with its limitations. Explain the terms: Time of concentration and Inlet time.	07 07
Q.4	(a) (b)	Enlist the different types of materials for sewers. Explain any two in detail. Explain the water cycle with neat sketch. <b>OR</b>	07 07
Q.4	(a) (b)	Enlist and explain the factors affecting the quantity of storm water. Write down the construction and functions of drop manhole with neat sketch.	07 07
Q.5	(a) (b)	Enlist and explain the factors affecting domestic water demand. Explain the system of plumbing.	07 07
Q.5	(a) (b)	<b>OR</b> Write a short note on different types of sewer joints. Write down the procedure for laying of sewer pipes.	07 07

\*\*\*\*\*