Seat No.: Enrolment No GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII • EXAMINATION – WINTER 2013 Subject Code: 171303 Date: 07-12-2013		
		2013
	ject Name: Industrial Water Pollution and Control	
Tim	ne: 10.30 am - 01.00 pm Total Marks: 70 nuctions:	
111901	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q-1	(a) Justify "Why there are different discharge standards for different environmental sinks?"	07
	(b) Write a note on causes and effects of 'Oil Pollution'.	07
Q-2	(a) Write a note on 'Waste management hierarchy'.(b) Explain how industrial wastewaters differ from domestic wastewater. OR	07
	(b) Explain the Phenomena of Stratification and overturn of Lake.	07
Q-3	(a) What is volume reduction? Enlist the different techniques of volume reduction and explain any one in detail.	07
	(b) Differentiate between 'Stream standards' and 'Effluent Standards' giving the advantages and disadvantages of both. OR	07
0.2	(a) Write a short note on	07
Q-3	(i) self purification of streams (ii) DO sag Curve.(b) Give the Classification of lakes based on productivity and Biological	07
Q-4	Zones. (a) (i) What is "Proportioning"?	07
	(ii) Explain with the help of an example "Population Equivalent".(b) Given an option to select any environmental sink, which one will you select for discharge of effluents? Why? OR	07
Q-4	(a) Write a brief note on concept and advantages of Common Effluent Treatment Plants.	07
	(b) Explain the importance of equalization and neutralization in treatment of industrial wastewater.	
Q-5	(a) What is strength reduction? Prepare a list of strength reduction techniques and explain any two.	07

(b) Write down the manufacturing process, sources and treatment of wastewater for any one of the following industries: (i) Starch (ii) Fertilizer (iii) Sugar. OR

(a) Enlist the different processes and equipments to remove oil and grease Q-5 07 from wastewater. Explain any one with the help of neat sketch. (b) Highlight the primary and secondary benefits of pollution control 07
