Seat N	lo.:	Enrolment No	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIV	LOGICAL UNIVERSITY	
		M.E –II st SEMESTER–EXAMINATION – JULY	Y- 2012	
•			Date: 09/07/2012	
-		lame: Industrial Water and Wastewater Treatmen		
		230 am – 13:00 pm	Total Marks: 70	
Instr	ucti	ons:		
	Attempt all questions.			
		ke suitable assumptions wherever necessary.		
3.	rigi	res to the right indicate full marks.		
Q.1	(a)	Enlist various methods of waste strength reductions and explain any three methods in detail.	07	
	(b)	What do you understand by equalization and proportioning of industrial wastewater in context with industrial wastewater treatment.	07	
Q.2	(a)	Explain the methods for removal of colloidal solids.	07	
χ	(b)	Explain in detail neutralization of industrial wastewater by various methods.	07	
	(b)	OR Explain the role of algae in removal of inorganic dissolved solids.	07	
Q.3	(a)	Discuss the sources and treatment of dairy wastes.	07	
Q.C	(b)	Discuss the source and treatment of radioactive wastes. OR	07	
Q.3	(a)	Explain the importance of pre-primary treatment in case of industrial waste treatment.	07	
	(b)	How coagulation and flotation helps in treatment of industrial wastewaters. Explain.	07	
Q.4	(a)	Explain Vacumm filtration and sludge digestion for treatment of industrial wastes.	07	
	(b)		07	
Q.4	(a)	Which physio-chemical processes are involved in treatment of industrial wastewater? Explain.	07	
Q.4	(b)	Explain in brief various biological treatment processes for industrial wastewaters.	07	
Q.5	(a)	Enlist various methods of saline water conversion and explain ion exchange method in detail	07	
	(b)	Write short note on activated sludge process and tricking filter.	07	
		OR		
Q.5	(a) (b)	Write short note on electro dialysis and reverse osmosis. Explain in detail the concept and the points to be considered in designing of CETP	07 07	
