Se	eat No.: Enrolment No	
	GUJARAT TECHNOLOGICAL UNIVERSITY	
	BE - SEMESTER-VII • EXAMINATION – WINTER • 2014	
\mathbf{S}	ubject Code: 171303 Date: 04-12-2014	
\mathbf{S}_{1}	ubject Name: Industrial Water Pollution and Control	
T	ime: 10:30 am - 01:00 pm Total Marks: 70	
In	structions:	
	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q-1	(a)Explain how industrial waste water differs from Domestic Waste Water.	07
	(b)Enlist & Explain the Primary & Secondary Benefits of Pollution Control.	07
Q-2	(a) Write a Short note on" Waste Management Hierarchy."	07
	(b) Write a short note on Causes & Effects of Oil Pollution. OR	07
	(b) Enlist the Different Processes & Equipments to remove oil & Grease from Waste Water. Explain any one With the help of neat Sketch.	07
Q-3	(a) Write a short note on "Conservation of Water in Industries".	07
	(b) Explain the Phenomena of Stratification & overturn of Lakes. OR	07
Q-3	(a) Derive the equation for steady state Concentration of Pollutant in a lake.	07
	(b) Justify "Why there are Different Discharge Standards for Different Environmental Sinks?"	07
Q-4	(a) Highlight the Concept, Significance & advantages of Common Effluent Treatment Plants.	07
	(b) What is Volume Reduction? Enlist the Different Techniques of Volume Reduction & Explain any one in detail.	07
	OR	
Q-4	(a) What is Strength Reduction? Prepare a list of Strength reduction Techniques & Explain any two.	07
	(b) Write a short note on Equalization of Waste Water.	07
Q-5	(a)Write a short note on(1) Self Purification of Stream.(2) DO sag curve.	07
	(b) Differentiate between the "stream standards & Effluent Standards" giving	07
	the Advantages & disadvantages of both.	
	OR	
Q-5	(a)What is proportioning?	07
	(2) Explain with the help of an Example "population Equivalent"	
	(b) Suggest some common measures which an industry can adopt to Conserve water & reduce Waste Water Volume.	07
