Seat No.:	Enrolment No.

Subject Name: Industrial Water & Wastewater Treatment

Subject Code: 2721702

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

ME - SEMESTER-II • EXAMINATION - SUMMER - 2017

Date: 26/05/2017

Time: 02:30 PM To 05:00 PM Total M		2:30 PM To 05:00 PM Total Marks:	larks: 70	
Instr	1. 2. 3.	ns: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	What are the different treatments given to major industrial wastes? Explain Neutralization & Equalization process for Industrial waste treatment.	07 07	
Q.2	(a) (b)	Write a short note on various biological treatment process for industrial wastewater.  Explain in detail if joint treatment of industrial and domestic waste is feasible or not?	07 07	
		OR		
	<b>(b)</b>	Explain in detail the concept and the points to be considered in designing of CETP.	07	
Q.3	(a)	What are the points to be considered when disposal of treated waste water into Inland surface water bodies?	07	
	<b>(b)</b>	Write a short note on waste strength reduction. <b>OR</b>	07	
Q.3	(a)	into Public sewers? Explain population equivalent.	07	
	<b>(b)</b>	Write a short note on waste volume reductions.	07	
Q.4	(a) (b)	Explain Cost of Pollution Control & its benefits Explain Electro-dialysis process for water treatment.  OR	07 07	
Q.4	(a)	What do you understand by Zero Discharge System (ZDS) for industrial wastewater?	07	
	<b>(b)</b>	Explain Reverse Osmosis Process for water treatment.	07	
Q.5	(a)	Explain in detail origin, characteristics and treatment of Pharmaceutical waste.	07	
	<b>(b)</b>	Explain in detail origin, characteristics and treatment of Dairy waste.  OR	07	
Q.5	(a) (b)	Explain in detail origin, characteristics and treatment of Textile waste Explain in detail origin, characteristics and treatment of fertilizer plant waste.	07 07	

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