Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VIII EXAMINATION - SUMMER 2016** 

Subject Code:180406  Subject Name:Environmental Management (Department Elective-II)  Time:10:30 AM to 01:00 PM  Instructions:  Total Mark		2016	
		s: 70	
	2	<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>	
Q.1	(a)	What are the health effects and ecological effects of soil contamination?	07
	<b>(b)</b>	Elucidate on the Recycling approach for effective solid waste management.	07
Q.2	(a)	Explain in detail about the involvement of gases in ozone layer depletion.	07
	<b>(b)</b>	Explain the sampling methods for analysis of air.  OR	07
	<b>(b)</b>	Explain the detrimental effects of air pollution on materials.	07
Q.3		What are the effects of the water pollution on ecology?  Explain the sludge treatment process.  OR	07 07
Q.3	(a)	What are the sources of water pollution?	07
<b>C</b>		Explain the activated sludge process.	07
Q.4		If you are given the responsibility, what will be your management strategy for hospital waste management?	07
	<b>(b)</b>	Explain the process modification for reduction of NOx during combustion.  OR	07
Q.4	(a)	How Biological treatment through stabilization ponds can help manage high lignin wastes generated from paper & pulp industries.	07
	<b>(b)</b>	What is the use of adsorption in removal of pollutants from gas?	07
Q.5		State the peculiar characteristics of Land-filling strategies for industrial effluents. What is your viewpoint regarding universal waste and explain how it can be hazardous?	07 07
		OR	
Q.5	(a)	If you are given a task of sampling and characterization of industrial effluents, what will be your plan of action?	07
	<b>(b)</b>	If you need to store, treat, dispose hazardous waste, which guidelines are mandatory?	07

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