

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER–VIII • EXAMINATION – SUMMER • 2014

Subject Code: 180406

Date: 27-05-2014

Subject Name: Environmental Management

Time: 10.30 am - 01.00 pm

Total Marks: 70

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1 (a) What are the different sources of Air Pollution? 07**
(b) What are the factors responsible for climate change? 07
- Q.2 (a) What do you mean by Leachate? State the significance of Leachate collection systems 07**
during landfilling of solid wastes.
(b) How neutralization and proportioning of industrial effluents is vital for its management? 07
- OR**
- (b) If you are a generator and intend to dispose your industrial wastewater, what are the 07**
mandatory guidelines?
- Q.3 (a) Which technologies will you adopt for hazardous waste minimization? 07**
(b) State the peculiar characteristics and types of hospital wastes. 07
- OR**
- Q.3 (a) How electronic and construction wastes can be hazardous? 07**
(b) State the mandatory checklists during transportation of hazardous wastes. 07
- Q.4 (a) Explain the term biomagnifications with help of one example. 07**
(b) Explain the use of limestone for removal of SO_x. 07
- OR**
- Q.4 (a) Write short note on Carbon Credit. 07**
(b) Write short note on CO₂ sequestration. 07
- Q.5 (a) Explain any three process modifications in activated sludge treatment process. 07**
(b) What are BOD and COD? How can we measure them? 07
- OR**
- Q.5 (a) Explain the theory of settling process. 07**
(b) What are the different types of waste water? 07
