

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V • EXAMINATION – SUMMER • 2014****Subject Code: 150603****Date: 19-06-2014****Subject Name: Environmental Engineering****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 is air pollution? Discuss its effects on humans, animals and plants. **07**  
(b) Discuss the self purification of stream. **07**
- Q.2** (a) Explain the different factors affecting the water demand. **07**  
(b) Explain the different physical quality parameters of the water **07**
- OR**
- (b) Write a short note on control of water borne diseases **07**
- Q.3** (a) Differentiate between aerobic and anaerobic decomposition of waste water. **07**  
(b) What is sewage farming? State advantages of this method. **07**
- OR**
- Q.3** (a) Define and explain the (a) House drainage system ( b) Sewerage system **07**  
(b) Discuss the different methods of sewage disposal. **07**
- Q.4** (a) Write short note on Environmental impact assessment. **07**  
(b) Describe methods of measurement and control of noise. **07**
- OR**
- Q.4** (a) How the pH is measured? Calculate how much acidic is pH 4 compared to pH of 6 **07**  
(b) Write short note on MPN test. **07**
- Q.5** (a) Write short note on Environment Audit. **07**  
(b) State and explain classification of solid waste. **07**
- OR**
- Q.5** (a) Describe sanitary land filing on low lying areas. **07**  
(b) Discuss biomedical waste characterization. **07**

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