

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER- 1<sup>st</sup> / 2<sup>nd</sup> • EXAMINATION – SUMMER • 2014**

**Subject Code: 110007****Date: 17-06-2014****Subject Name: Environmental Studies****Time: 02:30 pm - 05:00 pm****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Critically explain the need of providing environmental education to engineers. **07**  
(b) Explain the various components of environment. **07**
- Q.2** (a) Describe the importance of biochemical cycle in the biosphere. Describe the Carbon Cycle with a neat sketch. **07**  
(b) What is an ecological pyramid? Enlist its types and describe the pyramid of energy depicting the energy flow. **07**
- Q.3** (a) Discuss various water quality parameters for safe drinking water. **07**  
(b) Define deforestation. Discuss the major causes and effects of deforestation. **07**
- Q.4** (a) Give the reasons for overpopulation and discuss issues created by overpopulation. **07**  
(b) Give the classification of natural resources. Why it is necessary to conserve natural resources. **07**
- Q.5** (a) What is ozone layer depletion? Discuss its causes and remedial measures. **07**  
(b) What are the causes and effects of noise pollution? **07**
- Q.6** (a) Narrate uses and abuses of land resource and causes of land degradation. **07**  
(b) Giving the classification of ecology, narrate the structure and functions of an ecosystem. **07**
- Q.7** (a) Describe in detail the phenomenon of global warming. **07**  
(b) Give the classification and effects of air pollutants. **07**

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