

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE SEMESTER 1<sup>st</sup> / 2<sup>nd</sup> (OLD) EXAMINATION WINTER 2016**

**Subject Code: 110007****Date: 30/01/2017****Subject Name: Environmental Studies****Time: 10:30 AM TO 1:00 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) Explain the impact of “Technology and development of environment” **07**  
(b) What are the components of environment? Explain by drawing sketch. **07**
- Q.2** (a) What do you mean by biogeochemical cycles? Explain carbon cycle in detail. **07**  
(b) Explain in detail different components of ecology. **07**
- Q.3** (a) Write short note on ‘Forest ecosystem’. **07**  
(b) Narrate in detail energy flow in an ecosystem. Explain with one of the models of energy flow you have learnt in the class. **07**
- Q.4** (a) Differentiate the food chain and food web and explain the food chain and food web with one example for each. **07**  
(b) What is deforestation? What are the major causes of deforestation? **07**
- Q.5** (a) Enlist parameters of water quality standards for drinking water in India specified by BIS 10500-2012. **07**  
(b) Distinguish between renewable and Nonrenewable energy resources. **07**
- Q.6** (a) Define population growth and different ways to control population growth. **07**  
(b) Explain effect of air pollution on human being and vegetation. **07**
- Q.7** (a) Define noise. Enlist major sources of noise pollution and explain any one briefly. **07**  
(b) Explain by drawing sketch Greenhouse effect. **07**

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