

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-1/2 EXAMINATION – WINTER 2017****Subject Code: 110007****Date: 08/01/2018****Subject Name: Environmental Studies****Time: 10:30 AM TO 01:00 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 types of food chain. **07**  
(b) Discuss the importance of environmental education and the goals and objectives of environmental education. **07**
- Q.2** (a) Which are the different types of ecosystem? Discuss anyone in detail. **07**  
(b) What are the components of environment? Explain with Sketch. **07**
- Q.3** (a) Discuss in detail problems due to over exploitation of water resources. **07**  
(b) Describe nitrogen cycle with a neat sketch. What is the significance of nitrogen in biotic components? **07**
- Q.4** (a) Give the classification of natural resources. Why it is necessary to conserve natural resources. **07**  
(b) Define : (i) Food Web (ii) Tropic Structure (iii) Ecosystem (iv) Eutrophication (v) Ecological Pyramids (vi) Pollution (vii) Desertification **07**
- Q.5** (a) Define the term air pollution. Discuss the various causes and effects of air pollution in detail. **07**  
(b) What is deforestation? What are the major causes of deforestation? **07**
- Q.6** (a) Write short note on (i) Global warming (ii) Noise Pollution. **07**  
(b) Define Acid rain. Explain its causes and effects on environment. **07**
- Q.7** (a) Write a short note on green house effect. **07**  
(b) Discuss population growth in detail. What are the different methods for control of population growth. **07**

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