

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- Ist /IInd SEMESTER–EXAMINATION – MAY/JUNE - 2012

Subject code: 110007

Date: 28/05/2012

Subject Name: Environmental Studies

Time: 10:30 am – 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.
4. Each question carry equal marks

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|-------------|-----|---|----------|
| Q.1 | (a) | Explain the importance of environmental education? Discuss the impact of human on environment. | 7 |
| | (b) | Explain various components of environment. | 7 |
| Q.2 | (a) | Define the terms (i) Ecosystem (ii) Symbiosis (iii) Autotroph (iv) Nitrogen fixation. | 8 |
| | (b) | Why sulfur is required for any organism? Explain the sulfur cycle. | 6 |
| Q.3 | (a) | Define the terms (i) Denitrification (ii) Abiotic component (iii) Respiration (iv) Decomposers | 8 |
| | (b) | Discuss types of aquatic ecosystem and their components. | 6 |
| Q.4 | (a) | Discuss the conventional and non conventional energy resources with their impact on environment.. | 7 |
| | (b) | Differentiate malnutrition and undernourishment. Discuss factors to improve the food production. | 7 |
| Q.5 | (a) | Define population growth and discuss the factors affecting population growth. | 7 |
| | (b) | Explain different sources of water. Discuss problems associated with the over exploitation of water resources. | 7 |
| Q. 6 | (a) | Discuss various water quality parameters for safe drinking water. | 7 |
| | (b) | Describe the unit of sound measurement? Discuss the ways to control noise pollution. | 7 |
| Q.7 | (a) | Discuss various gaseous and particulate air pollutants with their sources. | 7 |
| | (b) | Explain the causes of ozone layer depletion. Why 'Montreal Protocol' is called a successful international step. | 7 |
