

**GUJARAT TECHNOLOGICAL UNIVERSITY****B.E. Sem-I Remedial Examination March / April 2010****Subject code: 110007****Subject Name: Basics of Environmental Studies****Date: 07 / 04 / 2010****Time: 12.00 Noon – 02.30 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)** Define/explain followings Any SEVEN **07**  
 (i) Environment (ii) Ecology (iii) Ecosystem (iv) Deforestation (v) Eutrophication (vi) Biomagnification (vii) Decomposers (viii) Omnivores (ix) Transpiration (x) Runoff (xi) Global warming (xii) Emigration(xiii) producer
- (b)** Discuss relationship between Man and Environment . Why is Environmental Protection discussed recently? **07**
- Q.2 (a)** Enlist types of ecosystems. Describe in detail structure and function of an ecosystem. **07**
- (b)** How are food chain and food web interconnected? Explain this with an example of aquatic Or terrestrial ecosystem . **07**
- OR**
- (b)** How does energy flow occur in an ecosystem? Why is ecosystem with large population of one species considered to be not healthy? **07**
- Q.3 (a)** Describe in detail environmental factors governing the human settlement .Give effects of overpopulation. **07**
- (b)** Enlist all factors leading to deforestation. What are effects and remedial measures of deforestation **07**
- OR**
- Q.3 (a)** Differentiate and enlist renewable and nonrenewable natural resources. What are uses and misuses of water? **07**
- (b)** Describe in detail destruction versus conservation of natural resources **07**
- Q.4 (a)** Describe in detail all energy resources being used presently. What are advantages and limitations of non-renewable and renewable and conventional and Non-conventional energy resources ? **07**
- (b)** Describe importance of biochemical cycle in the biosphere. Describe nitrogen cycle with sketch in detail. **07**

**OR**

- Q.4 (a)** What are impacts of technology on Environment? Describe impacts on environment by uses of different sources of energy **07**
- (b)** Write Short note on **Any Three** of followings **07**
1. Methods of projection of population.
  2. Environmental degradation
  3. Ecological Pyramids
  4. Population and food production
  5. Water Quality Criteria
  6. Problems due to overexploitation of water resources
- Q.5 (a)** Enlist types of Environmental Pollution. What are effects of water pollutants on Environment and human **07**
- (b)** What are causes of land Degradation? Narrate common pollutants responsible for causing land pollution **07**
- OR**
- Q.5 (a)** Describe Structure of Atmospheric air . Give types and effects of common air pollutants in detail **07**
- (b)** Write explanatory notes on **Any TWO** of followings **07**
1. Noise pollution effects
  2. Ozone layer Depletion
  3. Indian Drinking Water Standards
  4. Acid rains
  5. Overexploitation of Energy resources

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