

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BPLAN – SEMESTER IV– • EXAMINATION – WINTER 2016**

**Subject Code: 1045504****Date: 25/10/2016****Subject Name: Ecology and Environmental Management****Time: 02:30 PM to 04:30 PM****Total Marks: 50****Instructions:**

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

- Q.1** (a) Fill in the blanks. **05**
1. The nature's tendency is always keep resources in \_\_\_\_\_.
  2. The constitution of India has enacted \_\_\_\_\_ act for overall environmental protection.
  3. To protect and regulate the coastline area GoI has introduced \_\_\_\_\_.
  4. The highest order in the food chain occupied by \_\_\_\_\_.
  5. The main energy source for carbon cycle is \_\_\_\_\_.
- (b) Give the short definition. **05**
1. Resources
  2. Eco-system
  3. Global Warming
  4. Environmental Degradation
  5. Energy Conversion
- Q.2** (a) What is the meaning and scope of ecology? **05**
- (b) Describe the water cycle in nature **05**
- OR**
- (b) Explain the food web in nature **05**
- Q.3** (a) Explain the ecological pyramid in nature **05**
- (b) What are the impacts of human settlement on advanced agricultural techniques? **05**
- OR**
- Q.3** (a) Explain the effect of urbanization and industrialization on nature **05**
- (b) Give briefing on importance of planning for environmentally sensitive areas **05**
- Q.4** (a) What are the renewable and non-renewable resources explain with examples? **05**
- (b) How ecological parameters/indicators can help in planning process? **05**
- OR**
- Q.4** (a) What are the possible effects of incorporating environmental plans in five year plan? **05**
- (b) Explain the relation between Man, Environment and Ecosystem **05**
- Q.5** (a) Explain in brief about EIA **05**
- (b) What is environmental land use classification? **05**
- OR**
- Q.5** (a) What are the legal measures for protection of environment in India? **05**
- (b) What is the role of planners in shaping the future environment? **05**

\*\*\*\*\*