

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**
