

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject code: 131303

Date: 03-01-2013

Subject Name: Ecology and Remote Sensing

Time: 10.30 am – 01.00 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) What is Ecology? Enlist objectives of Ecology. **07**
 (b) Write short note on Indicator Organisms. **07**
- Q.2** (a) Enlist Negative Interaction and explain any one in detail. **07**
 (b) What is Climograph? Explain it and Draw diagram. **07**
- OR**
- (b) Explain Logistic Growth theory in detail. **07**
- Q.3** (a) What is Territorialism? Explain in detail with examples. **07**
 (b) Difference between Predation and Parasitism. **07**
- OR**
- Q.3** (a) Explain Shelford's law and Liebigs law. **07**
 (b) Write a note on Population Size and Population Estimate. **07**
- Q.4** (a) Now a days Remote sensing is very useful in environmental Engineering. Explain in detail. **07**
 (b) Write a note on photograph and image. **07**
- OR**
- Q.4** (a) What is Remote Sensing? Enlist its applications. **07**
 (b) Explain Scale of Photograph with example. **07**
- Q.5** (a) Explain elements of Visual Image Interpretatin. **07**
 (b) What is Ground Truth? How Ground datas are important in Remote Sensing? **07**
- OR**
- Q.5** (a) What is GIS ? Write down application of GIS. **07**
 (b) Write note on GPS. **07**
