

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – WINTER • 2014

Subject Code: 131303

Date: 18-12-2014

Subject Name: Ecology and Remote Sensing

Time: 02.30 pm - 05.00 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 GIS? Discuss in detail **07**
(b) Enlist the applications of Remote sensing **07**
- Q-2** (a) Why the concept of Limiting Factors so important? Discuss Shelford's and Liebig's Laws in this Context. **07**
(b) What is Climograph? Explain it and Draw Diagram. **07**
OR
(b) What is Ecology? Enlist the Objective of Ecology. **07**
- Q-3** (a) Explain Malthusian Theory of Population. **07**
(b) Enlist the method of Population Estimation and Explain any two in Detail. **07**
OR
- Q-3** (a) Write a Short note on Photograph and image. **07**
(b) Explain Elements of Visual image Interpretation. **07**
- Q-4** (a) Write a Short note on Dominance Hierarchy. **07**
(b) Discuss in Brief "territorialism". **07**
OR
- Q-4** (a) Why ground truth is important in Remote sensing. **07**
(b) Write a Brief note on GPS. **07**
- Q-5** (a) Describe Spatial Resolution? What does the mean of Resolution and Low Resolution image? **07**
(b) Write a short note on Indicator Organisms. **07**
OR
- Q-5** (a) Difference Between Predation and Parasitism. **07**
(b) How Remote Sensing is useful in Environmental engineering field? Discuss in brief. **07**
