

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – SUMMER • 2014

Subject Code: 131303

Date: 23-05-2014

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) Write and Explain the Shelford's law and liebig's law. **07**
(b) Give difference between Commensalism and Mutualism with proper example. **07**
- Q-2** (a) Discuss Image Interpretation key in detail. **07**
(b) Write short note on types of photograph and photographic scale. **07**
- OR
- (b) Discuss different types of sensors for monitoring. **07**
- Q-3** (a) What is GIS? Discuss in detail **07**
(b) Enlist the applications of Remote sensing. **07**
- OR
- Q-3** (a) Why ground truth is important in remote sensing? **07**
(b) What is GPS? How remote sensing is cost effective? **07**
- Q-4** (a) Explain Malthusian theory of population. **07**
(b) Write short note on Climagraph and Ammensalism. **07**
- OR
- Q-4** (a) Enlist methods of population estimation and explain any two in Detail. **07**
(b) Discuss in brief "Territorialism". **07**
- Q-5** (a) What is Ecology? Enlist the Objective of Ecology. **07**
(b) Write a Short note on Dominance Hierarchy. **07**
- OR
- Q-5** (a) Write a brief note on indicator organisms and alien organism **07**
(b) How Remote Sensing is useful in Environmental engineering field? Discuss in brief. **07**
