## 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 liebigs 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

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