Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER– III • EXAMINATION – SUMMER 2015

Subject Code: 131303 **Date:09/06/2015**

Subject Name: Ecology & Remote Sensing

Time:02.30pm-05.00pm **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)**	Explain with example Shelford's law and Liebigs law.	**07**
	(b)	Write a note on elements of image interpretation.	**07**
Q.2	**(a)**	Enlist the various applications of remote sensing & explain land use application of remote sensing in detail.	**07**
	(b)	Write a short note on Climograph.	**07**
		OR	
	(b)	Give the detail classification of Remote sensing.	**07**
Q.3	**(a)**	Write a role of indicator organism in the field of environment.	**07**
	(b)	What do you understand by scale of photograph? Justify your answer with suitable examples.	**07**
		OR	
Q.3	**(a)**	Differentiate the commensalism & mutualism.	**07**
	(b)	Write the application of remote sensing in the field of telecommunication.	**07**
Q.4	**(a)**	Write a short note on IRS.	**07**
	(b)	Explain the basic process of remote sensing with neat & clean diagram.	**07**
		OR	
Q.4	**(a)**	Write a short note on GIS with its application & suitable example.	**07**
	(b)	What are SRC explain with suitable example.	**07**
Q.5	**(a)**	Differentiate between Territorialism and Dominance hierarchies.	**07**
	(b)	Explain the Malthusian theory of population growth.	**07**
		OR	
Q.5	**(a)**	Explain any one population estimation method in detail.	**07**
	(b)	Explain any two population forecasting methods with sample calculation.	**07**

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