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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE - SEMESTER- IV (NEW) EXAMINATION - SUMMER 2015**

Subject code: 2141305 Subject Name: Ecology & Remote Sensing			Date:03/06/2015	
Time Insti	e: 10	Total Marks: 70		
	2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a)	Give the difference between  i) Positive interaction and Negative interaction ii) Territorialism and dominance hierarchies	07	
	<b>(b)</b>	,	07	
Q.2	(a)	A rectangular agricultural field measures 8.6 cm long and 5.13 cm wide on a vertical photograph having a scale of 1:20,000. Find a area of the field at a ground level.	07	
	<b>(b)</b>		07	
	<b>(b)</b>	Discuss Image Interpretation keys in detail.	07	
Q.3	(a)	Write a short note on Climagraphs with appropriate example.	07	
	(b)	Explain the terms(Any seven)  (i) Native species (ii) Alien species (iii) Habitat  (iv) Population (v) Tolerance level (vi) Parasitism  (vii) Ecology (viii) Ecosystem  OR	07	
Q.3	(a) (b)		07 07	
Q.4 Q.4	(a) (b)		07 07	
Q.4	(a)	Discuss Mutualism and Communalism with appropriate	07	
Q.4	<b>(b)</b>	example.  Differentiate between Photo and Image.	07	
Q.5	(a)		07	
Q.5	<b>(b)</b>	sensors What is GPS? Explain the application of GIS.  OR	07	
Q.5 Q.5	(a) (b)	Explain agricultural applications of remote sensing in detail.	07 07	

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