

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III • EXAMINATION – WINTER 2013****Subject Code: 131303****Date: 26-11-2013****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) Explain the Basic Components of ideal Remote Sensing.	07
	(b) Enlist various applications of GIS and Describe one of the applications of GIS in Environmental Engineering in detail.	07
Q-2	(a) Why the concept of limiting factors so important? Discuss Shelford's and Leibig's Laws in this context.	07
	(b) Write a Short note on Malthusian Theory of Population.	07
	OR	
	(b) How can you say that Predation and Parasitism are not same?	07
Q-3	(a) What is Ecology? Enlist objectives of Ecology.	07
	(b) What is Climograph? Explain it and Draw diagram.	07
	OR	
Q-3	(a) What is Territorialism? Explain in Detail with Examples.	07
	(b) Write a Short note on Photograph and image.	07
Q-4	(a) How Remote Sensing is useful in Environmental engineering field? Discuss in brief.	07
	(b) Write note on Indian Remote Sensing Satellite.	07
	OR	
Q-4	(a) Explain Importance of Signature in Remote Sensing.	07
	(b) Write note on Image Interpretation Keys.	07
Q-5	(a) Write a brief note on GPS.	07
	(b) Explain Elements of Visual Image Interpretation.	07
	OR	
Q-5	(a) What is Ground Truth? How Ground Datas are important in Remote Sensing?	07
	(b) Describe Spatial Resolution? What does the mean of Resolution & low Resolution image?	07