

GUJARAT TECHNOLOGICAL UNIVERSITY
B.E. Sem-III (Env.Engg.) Examination December/January 2009-10

Subject code:131303

Subject Name: Ecology And Remote Sensing

Date: 29 / 12/ 2009

Time: 11.00 am – 1.30 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) What is GIS ? Discuss in detail . **07**
(b) Enlist the applications of Remote sensing. **07**
- Q.2** (a) Discuss Image Interpretation Keys with examples. **07**
(b) What are the types of photograph and size of photograph? **07**
- OR**
- (b) Discuss different types of sensors for monitoring. **07**
- Q.3** (a) Discuss applications of remote sensing in environmental engineering. **07**
(b) Describe image and scale of the photograph. **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) Write a brief note on indicator organisms and alien organism. **07**
(b) Discuss in brief “Territorialism”. **07**
- OR**
- Q.4** (a) Write a brief note on population sizes and spatial distribution. **07**
(b) Differentiate between Malthusian growth and logistic growth. **07**
- Q.5** (a) Write a brief note on inter specific population. **07**
(b) Discuss mutualism and parasitism with examples. **07**
- OR**
- Q.5** (a) Explain Amensalism and Antibiosis **07**
(b) Write a note on social behavior in population regulation. **07**
