

GUJARAT TECHNOLOGICAL UNIVERSITY**B.E. Sem-III Remedial Examination May 2011****Subject code: 131303****Subject Name: Ecology & Remote Sensing****Date: 20-05-2011****Time: 10.30 am – 01.00 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) Give difference between Commensalism and Mutualism with proper example. **07**
(b) Write short note on Climograph and Ammensalism. **07**

- Q.2** (a) How can you say that Parasitism and Predation is not same, justify with example. **07**
(b) Write difference between Territorialism and Dominance hierarchies. (at least five points) **07**

OR

- (b) Define following Ecological terms (Any seven): **07**
a) Habitat e) Niche
b) Ecology f) Tolerance level
c) Sanctuary g) Population
d) National park h) Community

- Q.3** (a) How Indicator organisms help to predict ecological condition, explain with example. **07**
(b) State and explain Shelford's law of tolerance and Liebig's law of limiting factor. **07**

OR

- Q.3** (a) Explain Malthusian theory of population. **07**
(b) Enlist methods of population estimation and explain any two in detail. **07**

- Q.4** (a) How Remote Sensing is useful in Environmental engineering field? Discuss in brief. **07**
(b) Write short note on types of photograph and photographic scale. **07**

OR

- Q.4** (a) Explain forestry application of Remote Sensing in detail. **07**
(b) Discuss land use/land cover application of Remote Sensing in detail. **07**

- Q.5** (a) Discuss Image Interpretation key in detail. **07**
(b) Write brief note on GIS. **07**

OR

- Q.5** (a) Write color and color information film. **07**
(b) Explain GPS in detail. **07**