

GUJARAT TECHNOLOGICAL UNIVERSITY**B.E. Sem-IV Remedial Examination Nov/ Dec. 2010****Subject code: 140402****Subject Name: Basic Taxonomy & Techniques****Date: 03 / 12 / 2010****Time: 03.00 pm – 05.30 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) Give the contribution of Aristotle and Whittaker. **07**
(b) Enlist and briefly explain the important 'terms' used in the field of taxonomy **07**
- Q.2** (a) Explain the concept of GC%, sequencing and homology. **07**
(b) Importance of conserved sequences in classification. **07**
- OR**
- (b) Biochemical characterization of organisms. **07**
- Q.3** (a) What is plant taxonomy? How plants are classified? **07**
(b) Write a note on plant diversity. **07**
- OR**
- Q.3** (a) Write a note on Poaceae family of plants. **07**
(b) Describe the present status of plant taxonomy. **07**
- Q.4** (a) Through lights on the early attempts of animal classification. **07**
(b) Describe the methods used for classification of animals. **07**
- OR**
- Q.4** (a) Write a note on recent developments in the field of animal taxonomy. **07**
(b) Describe important phyla of animals with examples. **07**
- Q.5** (a) Write a detailed account on Three Domain classification system of organisms. **07**
(b) Describe the significance of microbial diversity. **07**
- OR**
- Q.5** (a) Discuss the general features of mycoplasma. **07**
(b) Describe the methods used for microbial classification. **07**
