

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV • EXAMINATION – SUMMER 2013****Subject Code: 140402****Date: 12-06-2013****Subject Name: Basic Taxonomy and Techniques****Time: 10:30am – 01:00pm****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 animal taxonomy? Describe various requirements of animal taxonomy in detail. **07**
- (b) Define animal diversity and discuss various kinds of animal diversities. Mention the importance of animal diversity. **07**
- Q.2** (a) Write a note on early attempts of animal taxonomy. **07**
- (b) Write a note on early attempts of plant taxonomy. **07**
- OR**
- (b) Write a note on early attempts of microbial taxonomy. **07**
- Q.3** (a) Comment on family *Poaceae* and give atleast five examples. **07**
- (b) Comment on family *Leguminosae* and give atleast five examples. **07**
- OR**
- Q.3** (a) Mention key characteristics of any seven phyla of animals with atleast two examples. **07**
- (b) What is Numerical Taxonomy? Mention the relevance of Numerical Taxonomy for microbial classification. **07**
- Q.4** (a) Write a note on scientific nomenclature of microorganisms with suitable examples. **07**
- (b) Write a note on scientific nomenclature of plants with suitable examples. **07**
- OR**
- Q.4** (a) Comment on the categories of microorganisms. **07**
- (b) Comment on the characteristics of bacteria. **07**
- Q.5** (a) Explain the present status and recent developments in the field of plant taxonomy. **07**
- (b) Explain the present status and recent developments in the field of animal taxonomy. **07**
- OR**
- Q.5** (a) Discuss different methods of classifying plants. **07**
- (b) Discuss different methods of classifying microorganisms. **07**
