Seat No.:	Enrolment No.

Subject code: 140402

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER - IV • EXAMINATION - WINTER 2012

Date: 28/12/2012

Time		me: Basic Taxonomy & Techniques 0 pm - 05.00 pm Total Marks	:: 7 0
111501	1. At 2. M	ttempt any five questions. Take suitable assumptions wherever necessary. Igures to the right indicate full marks.	
Q.1	(a)	What is taxonomy? Comment on morphological characterization of organisms.	07
	(b)	Define classification. Comment on biochemical characterization.	07
Q.2	(a) (b)	Write a note on early attempts of plant classification. Define animal diversity and discuss different types of animal diversities.	07 07
	(b)	OR Define plant diversity and discuss different types of plant diversities.	07
Q.3	(a)	What is animal taxonomy? Describe the requirements and significance of animal taxonomy	07
	(b)	Explain the significance of (G+C) % and 16S rRNA analysis in the classification of organisms.	07
Q.3	(a)	OR What is plant taxonomy? Describe the requirements and significance of plant taxonomy.	07
	(b)	Define animal phylum and briefly describe different types of animal phyla with examples.	07
Q.4	(a)	Describe the characteristic features of <i>Leguminosae</i> family and give common examples.	07
	(b)	Explain scientific nomenclature of animals with common examples. OR	07
Q.4	(a)	Describe the characteristic features of <i>Poaceae</i> family and give common examples.	07
	(b)	Explain scientific nomenclature of plants with common examples.	07
Q.5	(a)	What are viruses? Describe the important characteristics of viruses.	07
	(b)	What are microorganisms? Describe various categories of microorganisms with suitable examples. OR	07
Q.5	(a) (b)	Comment on the recent developments in the field of plant taxonomy. Describe the methods of classifying microorganisms.	07 07
