B.Sc. (With Credits)-Regular-Semester 2012 Sem II

2SMic-T2-Microbiology-II: Paper-II (Microbial Taxonomy, Ecology and Diversity)

P. Pages: 2 Time: Three Hours			* 0 0 6 4 *	Max. Marks : 50
	Note	2.	All questions are compulsory. Each question carry equal marks. Draw diagrams wherever necessary.	
1.		Describe	10	
			OR	
		Discuss	general characteristics of Arachaebacteria and cyanobacteria.	
2.		Describe	e aerobic and anaerobic method of composting in detail.	10
			OR	
		Explain	biofertilizer and their types with its applications.	
3.	a)	What is	binomial nomenclature system ?	21/2
	b)	Write sh	ort note on Rickettsia.	21/2
	c)	Explain	antagonism.	21/2
	d)	Discuss	biomagnification with example.	21/2
			OR	
	e)	Discuss	Whitaker's five kingdom system of classification.	21/2
	f)	Write sh	ort notes on protozoa.	21/2
	g)	What are	e the functions of Humus ?	21/2
	h)	Discuss	the concept of superbug.	21/2
4.	a)	Give the	general principles of bacterial taxonomy.	21/2
	b)	Write do	own the economical importance of Algae.	21/2
	c)	Write sh	ort notes on Mycorrhizae.	21/2
	d)	Discuss	the phenomenon of recalcitrance with example.	21/2

	e)	Describe the concept of three domain system.		
	f)	Give an economic importance of cyanobacteria.		
	g)	Explain symbiosis with example.		
	h)	Give the role of r-DNA technology in nitrogen fixation.		
5.		Answer any ten.		
		a)	Define Binomial nomenclature.	1
		b)	What is numerical taxonomy?	1
		c)	What is five kingdom system?	1
		d)	What are PLT organisms.	1
		e)	Give two examples of Actinomycetes.	1
		f)	Give the use of cyanobacteria.	1
		g)	Define antagonism.	1
		h)	What is mycorrhizae ? Give example.	1
		i)	Define Humus and give its significance.	1
		j)	Give two examples of nitrogen fixing bacteria.	1
		k)	What is xenobiotic compound?	1
		1)	Which organisms is known as superbug?	1
