## Bachelor of Science (B.Sc.) Second Semester Old

## 2SMIC-T2 - Microbiology Paper-II (Microbial Taxonomy, Ecology and Diversity)

	Pages: ne:Th	2 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	GUG/W/18/1247 Max. Marks : 50
	Not	es: 1. All questions are compulsory and carry equal marks.	
1.		Discuss in detail genetic relatedness methods of classification.	10
		OR	
		Describe in detail sexual and asexual methods of fungal reproduction.	
2.		Define mycorrhizae and with suitable example mention the types of it.  OR	10
		Discuss in detail symbiotic nitrogen fixation with suitable examples.	
3.	a)	Explain in brief binomial nomenclature.	21/2
	b)	Write characteristics of Archaebacteria?	21/2
	c)	Explain anaerobic methods of composting.	21/2
	d)	What are biopesticides? Give suitable examples.	21/2
		OR	
	e)	Describe Whittaker classification method.	21/2
	f)	Write note on reproduction in yeast.	21/2
	g)	Write applications of mycorrhizae.	21/2
	h)	Describe Biomagnification concept with examples.	21/2
4.	a)	Write note on Bergey's manual of systematic bacteriology.	2½
	b)	Write general characters of protozoa.	21/2
	c)	Describe composition and functions of humus.	21/2
	d)	Describe factors affecting nitrogen fixation.	2½
		OR	

	e)	Des	scribe Bergey's manual of systematic bacteriology.	21/2
	f)	Des	scribe cyanobacteria as photosynthetic organisms.	21/2
	g)	Ad	d a note on symbiosis.	21/2
	h)	Describe the process of modulation in legume plants.		
5.		Sol	ve any ten of the following.	
		a)	Define taxonomy?	1
		b)	What is three domain system.	1
		c)	Define binomial system with example.	1
		d)	Write two diseases caused by mycoplasma.	1
		e)	What is the site of photosynthesis in blue green algae.	1
		f)	Write two industrial uses of yeast.	1
		g)	Define predation.	1
		h)	What is antagonism?	1
		i)	Define humus?	1
		j)	Which organism is used in preparation of biofertilizer.	1
		k)	Write one reactor for recalcitrance.	1
		1)	What is superbug?	1

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