## B.Sc. (CBCS Pattern) Semester - I MIC-01 - Microbiology Paper-I (Fundamentals of Microbiology)

P. Pages : 2 Time : Three Hour				<b>GUG/S/23/11558</b> Max. Marks : 50	
	Notes	5:	1. All questions are compulsory and carry equal marks.		
1.			scribe the contribution of various scientist to solve the controversy over sporter and the controversy over sporter and the solve the solve the controversy over sporter and the solve the controvers	ontaneous	10
			OR		
		a)	Describe the contribution of Louis Pasteur.		21/2
		b)	Describe the contribution of Robert Koch.		21/2
		c)	Write contribution of Alexander Fleming.		21/2
		d)	Describe various basic branches of microbiology.		21/2
2.			scribe the structure and function of Gram-positive cell wall. Write difference m positive and gram-negative cell wall.	e between	10
			OR		
		a)	Describe structure of bacterial endospore with well labelled diagram.		21/2
		b)	Describe the structure and function of Flagella.		21/2
		c)	Write a note on plasmid.		21/2
		d)	Compare prokaryotic cell with eukaryotic cell.		21/2
3.		Des	scribe in detail different methods of classification of bacteria.		10
			OR		
		a)	Write note on concept of taxa, Genus, Species, Strain, Family.		21/2
		b)	Write note on Bergey's Manual of Determinative and systematic Bacteric	ology.	21/2
		c)	Describe Whittaker classification system.		21/2
		d)	Describe taxa, Genus and species.		21/2
4.		Des	scribe different methods of reproduction in Molds and Yeasts.		10

a)	Write general characters of viruses.	21/2				
b)	Describe lytic cycle for replication of viruses.	21/2				
c)	Draw well labelled diagram of T <sub>4</sub> Bacteriophage.	21/2				
d)	Write a note on Archaebacteria.	21/2				
Ans	Answer any ten					
a)	What is dust free box.	1				
b)	Write contribution of A.M. Chakraborty.	1				
c)	Write the contribution of Schroder & Von Dusch.	1				
d)	Define Prokaryotic Cell.	1				
e)	What is capsule in bacteria.	1				
f)	Write the various shapes of Bacteria.	1				
g)	Define strain.	1				
h)	What is Taxonomy?	1				
i)	What is the Bergey's Manual of Systematic Bacteriology.	1				
j)	Give two examples of Helical symmetry of viruses.	1				
k)	What are Halophiles?	1				
l)	Give one example of bacterial viruses.	1				

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