M.Sc.(Microbiology) (CBCS Pattern) Third Semester **PSMBT-09 - Genetics and Molecular Biology Paper-I**

	Pages : ne : Tl	1 mree Hours * 3 3 9 4 *	GUG/W/18/11291 Max. Marks: 80	
	Not	es: 1. All questions are compulsory and carry equal marks.		
1.		Describe in detail DNA replication in prokaryotes.	16	
		OR		
		Write Notes on		
	a)	DNA repair	8	
	b)	Photoreactivation	8	
2.		Describe the process of translation in detail.	16	
		OR		
		Write Notes on		
	a)	Characteristics of genetic code.	8	
	b)	Initiation, elongation and termination of MRNA synthesis.	8	
3.		Describe in detail concept of lac operon.	16	
		OR		
		Write Notes on		
	a)	Chromatin remodeling.	8	
	b)	p ³² control.	8	
4.		Describe generalized and specialized transduction in detail.	16	
		OR		
		Write Notes on		
	a)	Gene mapping by transformation.	8	
	b)	Transposons	8	
5.		Write short Notes on		
	a)	Overlapping gene	4	
	b)	Anti sense RNA	4	
	c)	Trp operon	4	
	d)	Conjugation	4	
