M.Sc.(Microbiology) (CBCS Pattern) Sem-III **PSMBT-09 - Paper-I : Genetics and Molecular Biology**

P. Page Time :	es: 1 Three Hours * 2 0 1 6 *	GUG/W/22/11291 Max. Marks : 80
1.	Explain the process of DNA replication in details.	16
	OR	
	Write in detail about DNA repair process.	
2.	Explain in detail about translation process in prokaryotes.	16
	OR	
	Explain the process of transcription in details.	
3.	Explain the regulation gene expression by Lac operon.	16
	OR	
	Explain the regulation gene expression by trp operon.	
4.	Write in details about the transduction process.	16
	OR	
	Describe the process of mapping by transformation.	
5.	Write notes on	16
	a) Gene within gene	
	b) Chaperons	
	c) P32 gene	
	d) Retroposons.	
