M.Sc.(Biotechnology) (Old / CBCS Pattern) First Semester BT1-T004 / PSBIT104 - Paper-IV : Molecular Biology

	ages: 1 e: Three H		GUG/W/18/11149 Max. Marks : 80
		 All questions are compulsory and carry equal marks. Draw diagram wherever necessary. 	
1.		e detailed mechanism of DNA replication. Also discuss different enzymessory proteins involved.	nes and 16
		OR	
	a)	Write a note on NER & BER.	8
	b)	Give different physical mutagens.	8
2.	Dis	cuss regulation of transcription with respect to lac operon.	16
		OR	
	a)	Discuss three types of RNA polymerases.	8
	b)	Termination of transcription.	8
3.	Dis	cuss comparison between prokaryotic and eukaryotic translation.	16
		OR	
	a)	Give a note on post translation modification of protein.	8
	b)	Give short note on Deciphering the genitive code.	8
4.	Dis	cuss conjugation in bacteria in detail.	16
		OR	
	a)	Give salient features of E. Coli genetic map.	8
	b)	Give note on extrachromosomal inheritance.	8
5.	Wri	te note on	
	a)	Compassion between prokaryotic and eukaryotic DNA replication.	4
	b)	Sigma factors.	4
	c)	Couple transcription translation.	4
	d)	C-value paradox.	4
