M.Sc.(Biotechnology) (CBCS Pattern) Second Semester CBCS **PSBIT-107 - Paper-III: Molecular Biology and Bioinformatics**

P. Pages: Time: Thr		GUG/W/18/111 burs * 3 2 9 6 * Max. Marks	
1.	Disc	cuss in detail about Southern and fluorescence in situ hybridization for genome analysis. OR	16
	a)	Discuss Holiday junction model for Homologous recombination.	8
	b)	Give an account on genetic and physical maps.	8
2.	Give	e detail account on Antisense and ribozyme technology and its applications.	16
		OR	
	a)	Give the information about epigenetics.	8
	b)	Discuss the direct chemical modification of DNA.	8
3.		at is Angiogenesis? Discuss in detail about various positive and negative factors cting angiogenesis.	16
		OR	
	a)	Discuss about polyoma virus and adenovirus regarding to cancer.	8
	b)	Give the information about oncogenes and suppressor genes.	8
4.		e detail account on database management and genomic proteomic and metabolic aways databases.	16
		OR	
	a)	Give an account on computer organization.	8
	b)	Discuss about concept of internet and public domain resources in biology.	8
5.	Solve the following.		
	a)	Give the application of molecular markers in forensic and disease prognosis.	4
	b)	Discuss the basic concepts of RNAi.	4
	c)	Give the information about biochemical parameters acquired by metastatic cells.	4
	d)	Give brief idea about BLAST and ENTREZ.	4
