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

P. Pages : 1 Time : Three Hours			lours * 6 2 2 0 *	GUG/W/23/11193 Max. Marks : 80	
	Note	es :	1. All questions are compulsory and carries equal marks.		
1.		Des	scribe molecular markers in detail.	16	
			OR		
		a)	Discuss holiday junction model for Homologous recombination.	8	
		b)	Explain fluorescence in situ hybridization for genome analysis.	8	
2.		Exp	plain in detail biochemistry of ribozyme and applications of ribozyme te	chnologies. 16	
			OR		
		a)	Give the information about epigenetics.	8	
		b)	Discuss the direct chemical modification of DNA.	8	
3.		Wr	ite characteristics of cancer cell and describe different methods to study	cancer. 16	
			OR		
		a)	Positive factors affecting angiogenesis.	8	
		b)	Write a short note on DNA viruses and cancer.	8	
4.		Def	fine data base management and describe various types of data and its app	plications. 16	
			OR		
		a)	Discuss the concept of networking regarding public domain resources	in biology. 8	
		b)	Give an account on computer organization hardware & software.	8	
5.	a)	Wr	ite a note on RFLP map?	4	
	b)	Ad	d a note on basic concept of RNAi.	4	
	c)	Wr	ite a note on p53 genes?	4	
	d)	Giv	ve brief idea about BLAST and PuBMed.	4	
