2	210	210	210	210	210	210	210		
Re	gis	tration No :							
Total	Nu	mber of Pages : 02					3.Tech 5D001		
2	210		Time Max M			210	210		
Ans	wer	Question No.1 (Pa	rt-1) which is cor	npulsory, an	y EIGHT from F	Part-II and any	TWO		
2	210	<sup>2</sup> The figu	from ures in <sup>e</sup> the right h	Part-III. nand²margin i	indicate marks	210	210		
			P	art- I					
Q1		Short Answer Type (	(	2 x 10)					
;	a)	What is Pharmacoger	netics and Pharmaco	ogenomics?					
I	-	What are the factors a	· ·	f an analyte?					
	210	What is molecular doc	210	210	210	210	210		
	-	What is reverse genet	•						
	•	Name a database rela			•				
	•	What are the social in	•	ncing human g	enome?				
		Write the principles of							
		How many SNPs are how many of these co			enes approximate	ly and about			
2	i) <sup>0</sup>	What do you mean by	metagenomics?	210	210	210	210		
	j)	What is a single orpha	an gene? What is ar	orphan family	?				
				art- II					
Q2		Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)							
_	•	What is peptide mass	•	•					
	-	Describe Clone Contig				210	210		
•		Briefly delineate the r protein analysis using			peptide ion fragi	mentation for			
•	-	What are the potential applications of metabolomics in biomedical research?							
(	-	Distinguish between array to protein array		ammable prote	ein array (NAPP	A) and DNA			
	f)	What is genome map	oing? Discuss the ty	pes of genome	e mapping technic				
	g)	What is Gene Ontology (GO)? Why GO is important in genome biology?							
I	h)	What is functional ger	nomics? What tools	are used in this	s technology?				
	•	What is posttranslation signal peptide and sul		•	•	•			
	j)	Write down the princip	ole and applications	of NMR spectr	oscopy.				
İ		What is Homology mo	odelling? How can y	ou build a 3D	structure of a pro	tein by using			
2	-10	this technique?	210	210	210	210	210		
		Discuss the various st	relative boood drie	decide approach	onoc				

210	210	210	210	210	210	210	210
	Q3	Part-III  Long Answer Type Questions (Answer Any Two out of Four)  Describe how proteomic analysis is accomplished using the MALDI-TOF Mass spectrometry.					
210	<b>Q4</b> 210	What do you mean be principles and advanta				ss the types,	<b>(16)</b> 210
	Q5	How can you annotate	e the genes enco	ding "hypothetica	l proteins"? Discu	uss briefly.	(16)
	Q6	How protein-protein ir living systems? Briefly					(16)
210	210	210	210	210	210	210	210
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