Registration No.:					1				Ι		
210	21		21	0		210		210		210	2:
Total nu	Total number of printed pages-2 <u>M.Tech</u> BTPE 201										
210	2nd		GENO	OMICS Q	S ANI Code	PR(: W8'	OTEO 79		- 201	5-16	2
					ull Ma me: 3		_				
	Answer	· Questio	n No. 1	which	n is con	npulso	ry and	any fiv	ve from	the res	t.
		The f	igures i	in the ri	ight-ha	nd mai	rgin ina	licate m	narks.		
210 1. Ans	swer the follo		21			210		210		210	[2X10]
(a)		Ü	egueno	cing are	e skipp	ed dur	ing sho	t-gun s	egueno	ing?	[]
(b)	What steps in DNA sequencing are skipped during shot-gun sequencing? Write the name of different techniques used for measurement of concentration										
, ,	proteins.				•						
(c)	Which types of genomics studies deals with the physical nature of genomes?										
(d)	Which bacterial genome was the first to be completely sequenced?										
(e)	What is SNP haplotying?										
(f)	What is the relation between genome size and gene number in prokaryotes?										
(g)	What do you mean by structural proteomics?										
(h)	What is SAC	E?	21			210		210		210	2:
(i)	Write two applications of the Human Genome Project?										
(j)	What do yo	u mean b	y pedi	gree an	nalysis?	•					
2. a) \	What are the	ESTs? Ho	ow can	the ES	T-datal	bases a	are used	d for <i>in</i>	-silico c	discover	y of SSRs
210	and SNPs?		21			210		210		210	[5]
b)	Briefly discu	ss variou	ıs orga	nellar (genome	es.					[5]
2 147	at in many		1			M. G. JUL	و مالم	- ملك -	ام - ۲ '		for MC
	at is mass sp		•	•		WITh וע	otner	met n oc	10 si	nization	
210	cuss their rel	auve me	rus and	ueme	iils.						[10]

[10]

4. Explain v	with the help of a	ı suitable exar	mple, the compu	ıtational approa	ch for studyin	ıg		
protein-	protein interacti	ons.				[10]		
210	210	210	210	210	210	210		
5. a) Explair	n with diagram tl	he "Yeast Two	o Hybrid System	" .		[5]		
b) What is peptide fingerprinting? Explain briefly.								
,		J 1	,			[5]		
6. a) What o	do you understar	nd by annotat	tion of whole ger	nome seguences	s? How far the	se		
210	ations are accura	210	210	210	210	[5]		
b) What c	do you understar	nd by pharam	acogenetics and	pharmacogeno	mics? Describ			
	f pharamacogeno		_					
diseas				3 3		[5]		
	210	210	210	210	210	210		
	are DNA chips an					nalysis		
	roarray data.	,				[5]		
	s RFLP and how	it is studied?	Why are they tr	eated as co-dom	ninant marker			
	s their utility in					[5]		
210	210	210	210	210	210	210		
8. Write sho	ort notes on any t	two:				[5X2]		
a) Compa	arative genomics	i.						
b) Iso-el	ectrofocusing.							
c) 16s r-F	RNA typing.							
d) N-tern	ninal sequencing	210	210	210	210	210		
210	210	210	210	210	210	210		