

	GI	ET U	NIVI	ERSI	TY, (GUNU	JPUR	R - 7650)22		
				ı	T	1		7		RN19MSC010	
	Roll No:										
Total Number	r of Pages: 1			AR-1	8			<u></u>		M.Sc	
		STER					IONS,	, NOV/D	EC 2019-2	20	
	Subject C	ENIET		Subject			IA TE	CHNOL	OCV		
Time: 3 Hour	Subject: G	ENE	IC EN	IGINE	EKIIN	G &DI	NAIL	CHNOL		ax Marks: 80	
		igures	in the		nand n		indicat	te marks.			
0.1	Answer any four of the fol	lowin	g:						[4 x 4 =	:16]	
a. Explain restriction endonucleases . Give an account of different types of restriction										•	
L	endonucleases. Elaborate suicide gene therapy technique.										
b.											
c.	Explain Sanger's method of DNA sequencing.										
d.	What is the role of Klenow enzyme in genetic engineering.										
e.	Explain briefly about SNP.										
f.	Give an account of Bacteria	al artif	ficial cl	hromo	some.						
OR Q2. Answer all questions from the following a. Explain the function of Alkaline phosphatase.								[2 x 8 = 16]			
b.	What are linkers and ada		_	•							
c.	What are cloning vectors	_									
d.	Explain briefly about cDNA library.										
e.	What is pedigree analysis?										
f.	Describe advantages of RFLP technology.										
g.	Write the properties of ligase enzyme.										
h.	Define chromosome wal	king.	•								
				SI	ECTI	ON-B					
	Answer all Questi	ons:								[16 x4 = 64]	
Q3. a.	Describe briefly about di	fferen	t enzyı	mes us		genetic	engin	eering.			
b.											
Q4.											
a.	Describe cosmids as vectors.										
				OR							
b.	Explain yeast two- hybrid system.										
Q5.											
a.	a. Explain the methods used for isolation and purification of RNA.										
1	December 111	1 -	1. a.t C		OR						
b.	Describe genomic library	ana t	neir tu	nction	•						
Q6. a.	What is gene silencing?	Descri	be si R	NA ar	ıd mi	RNA ø	ene sil	lencing te	echniques		
	<i></i> 8.				-	0		0	1		

OR

Explain about the types and applications of molecular markers.

b.