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(i)	P	rinted Pages :	2	Roll No.						
(ii	) (	Questions :	9 9	Sub. C	ode:	0	9	8	7	
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		D.O. 05								
		B.Sc. (Ho)	ns.) Biotecl		6 <sup>th</sup> Sem	ester				
		CE	(20)	2.7	DING					
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			raper. Di	01-001-	1					
Ti	me Al	llowed: Three	Hours]		[Maxir	num	Mai	rks :	67	
No	te :-	<ul> <li>Attempt five</li> </ul>	questions in	all. Oues	stion No	. 1 is	comi	oulsc	orv.	
		Attempt one					<u>I</u>		) •	
1.	Att	tempt the follow	ing :							
	(a)	What are Lin	/	antors ?	Give ex	amnl	es		3	
	(b)	12			OIVE CA	ampi	CS.		2	
	(c)	What are Isos			omnlos				2	
	(d)		1	: Give ex	ampies.				2	
		What are Pha	_	m) č					2	
	(e)	What is the reconstructs?	ole of antic	piotic res	istance	gene	s in	Vect	_	
	<b>(</b> £)								2	
	(f)	Define Insertio	or Security-but to that eviden						2	
	(g)	What is Codo							2	
			UNIT-	5						
2.	(a)	What are Restr			liberate	on Pi	roper	rties	of	
		Type II Restric	tion enzym	es.					.7	
			Ţ.	1						

	(b)	What are DNA modifying enzymes? Discuss role application of Alkaline phosphatase and Terminal transfera			
		· · ·	6		
3.	(a)	Write about Real time and Inverse PCR.	7		
	(b)	Discuss applications of PCR.	6		
	<b>(</b> )	UNIT—II			
4.	Elab	orate on construction and application of Cloning vector	rs in		
	Year		13		
5.	(a)	What are Bacterial Artificial Chromosomes? Explain feat	ures		
		and application in cloning.	7		
	(b)	What is Blue White selection? Explain principle.	6		
		UNIT—III			
6.	(a)	Why and how is mRNA enrichment done? Discuss vari methods.	ious 6		
	(b)	Discuss a strategy for full length cDNA synthesis.	7		
7.	(a)		. 7		
	(b)	The state of the s	6		
		UNIT—IV			
8.	(a)	Discuss the technique of Sanger sequencing.	6		
	(b		iesis.		
			7		
9.	, E	laborate on special vectors/promoters for recombinant pro	otein		
	production in E. Coli.				
		The state of the s			