Gerebic (18)

TE-BT/V/Rev/GE.

QP Code: 3419

(3 Hours)

Q.No. 1 is compulsory.

Total Marks: 80

	2)	Attempt any A questions from O N - 2 +- C	
150	900040	Attempt any 4 questions from Q.No. 2 to 6.	
	3)	All questions carry equal marks	
Q 1.	Answer the following (any 4):-		[20]
	a	Write a short note on type II restriction endocucleases	(2,1)
	b	Diagrammatically represent a method of cDNA synthesis	
	C	Write a short note on transformation	100
	d	Explain the role of terminal deoxynucleotidyl transferase in gene cloning	
	е	Write a note on types of ELISA	
Q2.	a	Explain any two methods of transferring DNA into a cell	[10]
	Ъ	Expiain the process of cloning in plants using a Ti plasmid	[10]
Q3.	3	What are plasmids. Explain the principle and procedure of alkaline lysis	[10]
		method of plasmid purification	[ro]
74	b	Explain the role of cell lines in production of biomolecules	[10]
Q4.	8	Write a short note on Southern hybridization technique	[10]
	b	Explain the cloning strategy in a typical pE'I'21 vector	[10]
Q5.	a	Explain the process of cloning in a pUC plasmid vector	
	ь	Write a note on role of alkaline phosphatase and polynucleotide kinase in	[10]
	-	cloning	. [10]
Q6.	а	Explain the role of RNA interference in medicine	
~ 5.	b		[10]
	U	Write a note on RAPD technique as a molecular marker	[10]