TE/ I/BT/ &E

Grenetic Engineering

Q.P. Code: 568902

(3 Hours)

Total Marks: 80

No	te:1	Q.No. 1 is compulsory.	
	2	2) Attempt any 3 questions from Q.No. 2 to 6.	1
	3	3) All questions carry equal marks	
	White	to short notes on: (ANV 4)	20
1.	Write short notes on: (ANY 4)		
	(a) Reverse transcriptase		
	(b) Plasmids		-
	(c) DNA ligases		
	(d) Micro-injection		
	(e) I	Lambda phage	
2	(a)	Describe in detail the process for genomic DNA library construction.	10
4.	(b)	Write a note on ELISA and its variations.	10
	10)		10
3.	(a)	Explain various factors which govern the choice of vector for cloning large fragments of DNA.	10
	(b)	Justify "Vectors with strong, controllable promoters are used to maximize synthesis of cloned gene products".	10
			10
4.	(a)	Explain Agrobacterium mediated gene transfer.	10
	(b)	Describe in detail the enzyme restriction endonucleases and their action.	
			6
5.	(a)	Write a note on M13 phage.	8
	(b)	Describe the process for cDNA library construction. Explain the method of alkaline lysis for plasmid preparation.	6
	(c)		
		What is Antisense Technology? Explain giving a suitable example?	10
6.	a)	What is Antisense Technology? Explain groups Explain the usefulness of di-deoxy nucleotide in DNA sequencing?	10
	b)	Explain the usefulliess of di decis	