QP Code: 3419

(3 Heurs)

Gerelic Ever

Total Marks: 80

Q.No. 1 is compulsory. 1) 2)

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- Attempt any 4 questions from Q.No. 2 to 6.
- All questions carry equal marks

Q1.	Answer the following (any 4):-		[20]
	a	Write a short note on type II restriction endocucleases	(20)
	Ъ	Diagrammatically represent a method of cDNA synthesis	
	c	Write a short note on transformation	
	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]
	ь	Explain the process of cloning in plants using a Ti plasmid	[10]
Q3.	3	What are plasmids. Explain the principle and procedure of alkaline lysis method of plasmid purification	[10]
	b	Explain the role of cell lines in production of biomolecules	[10]
Q4.	2	Write a short note on Southern hybridization technique	[10]
	ь	Explain the cloning strategy in a typical pET21 vector	[10]
Q5.	a	Explain the process of cloning in a pUC plasmid vector	[10]
	b	Write a note on role of alkaline phosphatase and polynucleotide kinase in cloning	. [10]
Q6.	3	Explain the role of RNA interference in medicine	[10]
	ь	Write a note on RAPD technique as a molecular marker	[10]

JP-Con. 8663-15.