Q.P. Code :08092

	[Time: 2½ Hours]	LMarks:60
	Please check whether your N.B: 1. All questions are comp	ou have got the right question paper. oulsory.
Q.1	Answer any two of the following a) Discuss use of transgenic plants for the b) Write a short note on 'therapeutic's write a short note on' Recombina	
	d) Discuss methods used for post-tra	ansalational modifications of proteins.
Q.2	Answer any two of the following a. write a short note an 'Concerns a' b. Patent filing is a multistep process c. Discuss the criteria to assess whe d. Write a note on 'Environmental E	s.' Justify ther biotechnological research is ethical.
Q.3	Answer any two of the following a. Write a short note on marine orgo b. Write a short note on marine insp c. Write applications of various mar d. Discuss marine bioprospecting	pired biomimetics.
Q.4	of regutable promotor with or b) Explain random mutagenesis	with degenerate oligonucleotide primers. al confactor requirements for enzyme activity are altered
Q.5	Do as Directed: a) Define: (Any FOUR) i) Monoclonal antibodies ii) Teratogen iii) Autonomy iv) Trademark v) Bioremediation	04
		(P.T.O)

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	vi) vii) viii)	Marine biominerals Kozak sequence Fusion protien	
b)	Give tv	vo examples : (Any FOUR)	
	i)	Therapeutic enzymes	
	ii)	Lectins used in affinity chromatography	22
	iii)	GMOs PARTIES AND	
	iv)	Patents under USPTO	Y. S.
	v)	marine derived alkaloids	
	vi)	Enzymes modified to make them heat stable	
	vii)	Activity of Exo III	
	viii)	Marine biopolymers	
c)	Give the significance.use of : (Any two)		_
	i)	Bioavailability of a drug	0
	ii)	licensing of IP	
	iii)	Marine Collagen	
	iv)	Tandem gene array	