QP Code: 76204

(OLD COURSE) (3 Hours)

Total Marks:75

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Q.1.	(a)		Discuss (any one):	7
		(i)	Ethanol production from wastes	
		(ii)	Biopolymer production	
	(b)		Explain (any one):	8
	<u> </u>	(i)	Regulation and guidelines for recombinant DNA technology	<u> </u>
		(ii)	Design of biosensor	
Q.2.	(a)		Discuss (any one):	7
		(i)	Basic principle of flux control design analysis	
		(ii)	Properties of model organism. Caenorhabditiselegans as	
			modelorganism	
	(b)		Explain (any one):	8
		(i)	Role of transposons in plant gene cloning	
		(ii)	Role of restriction endonucleases in gene cloning	
Q.3	(a)	, ,	Discuss (any one):	7
		(i)	Bioinsecticides	
		(ii)	Patented microorganisms	
	(b)		Describe(any one):	8
		(i)	Synthesis of nanomaterial	
		(ii)	Transgenic mice	
Q.4	(a)		Explain briefly(any one):	7
		(i)	Extremozymes	
	 	(ii)	Insitu and exsitu bioremediation technique	
	(b)		Attempt (any one):	8
		(i)	Write strategy used for improving antibiotic production by	
			Acremoniumchrysogenum	
		(ii)	How keeping quality of fruits and vegetables is improved through	
			Genetic engineering	1
Q.5	(a)		Attempt any three:	12
		(i)	Write principle of vermicomposting	ļ
		(ii)	Biomonitors of environmental chemical pollution	<u> </u>
	-	(iii)	Bioremediation of dyes from industrial waste	ļ
		(iv)	Discuss properties of marker genes used for detection of gene	
		<u> </u>	transfer in plants	-
	(b)	(*)	Answer any one of the following:	3
		(i)	Explain Single nucleotide polymorphism	ļ
	-	(ii)	Explain role of nitrogenase enzyme in nitrogen fixation	-

