Q.P. Code :11458

	[Time: $2\frac{1}{2}$ Hours]	[Marks:60
	Please check whether you have got the right question paper. N.B: 1. All questions carry equal marks.	
	2. All questions compulsory.	
	Draw neat and well labeled figure wherever necessary	6,66,77
		6666
Q 1	Describe BLAST algorithm. Write down its features and applications. OR	12
	Explain the promoter and regulatory elements prediction methods in prokaryotes	12
Q2	Write a note on character based phylogentic tree building methods	06
	Explain the algorithm of multiple sequence alignment.	06
	Describe the working of a standard Hidden Markov Model.	06
	Explain the algorithm of multiple sequence alignment.	06
Q 3	Describe probe design in DNA microarray.	06
	Write a note on the methods used for clustering in Microarray analysis. OR	06
	Explain proteome expression techniques for characterization / identifying the proteome.	12
Q 4	How do you represent a chemical compound using linear natations?	06
	Write a note on substructure searching algorithm	
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	Explain the features of relational databases for molecules.	06
	Describe various genome mapping techniques.	06
Q 5	Short notes on any three	12
	i. Data retrieval system in NCBI	
	ii. Motifs and domain	
	iii. Interpretation of Pattern and profiles in proteins	
	iv. Chou-Fasman structure prediction	
	v. Functional genomics	
	vi. Patent database	
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