No. of Printed Pages : 2

## B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

## **Term-End Examination**

00873

December, 2016

## **BICSE-008 : BIO-INFORMATICS**

Time : 3 hours

Maximum Marks: 70

BICSE-008

Note: Answer any seven questions. All questions carry equal marks.

1.	Explain the concept of multiple sequen alignment.	ce 10	
2.	Define Bio-informatics. What are the different parts in biological databases ? Explain.	nt 10	
3.	Who created BLAST ? Explain the type of scoring matrix used by BLAST.		
4.	(a) What is gene expression and microarrays	? 5	
	(b) How can microarray data analysis l done? Explain in detail.	be 5	

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## BICSE-008

P.T.O.

5.	(a)	Explain natural language processing and its limitations.	5
	(b)	What do you understand by microarray clustering and classification ? Describe in brief.	5
6.	(a)	What is classical NMR Spectroscopy?	5
	(b)	Explain integrated genomic maps in detail.	5
7.	Discu	uss the different Hidden Markov models.	10
8.		e the concepts of 1D Motifs. What are the rent representations in 1D Motifs?	10
<b>9.</b>	Diffe	ne terminologies and ontologies. rentiate between terminologies and logies.	10
10.	Expl	t is meant by database similarity searches ? ain the different ways to do database arity searches.	10

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