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

Term-End Examination June, 2018

BICSE-008: BIO-INFORMATICS

Tin	ne : 3 .	hours Maximum Mark	Maximum Marks: 70		
No		Answer any seven questions. All questions qual marks.	carry		
1.	(a)	What are the current approaches for bio-informatics and what are the problems in it?			
	(b)	What is Gene prediction?	5		
2.	(a)	Describe algorithm issues in database search.	s 5		
	(b)	Write any one Gene finding algorithm.	5		
3.	(a)	Discuss about relationships of phylogenetic analysis to sequence alignment.	: 5		
	(b)	Discuss genetic networks in detail.	5		
4.		o created BLAST? Explain the type of scoring	; 10		
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5.		e the concept of ID motifs. What are the rent relationships in ID motifs?	10		
6.					
0.	6. Explain comparative genomics algorithm.				
7.	(a)	Describe micro array clustering and its classification.	5		
	(b)	Describe vector machine applications in bio-informatics in detail.	5		
8.	Explain computational methods for identification of polypeptides from mass spectrometry.				
9.	What is the use of structure computations? Explain 3D structure computations.				
10.	_	ain Critical Assessment of Structure iction (CASP) and structures of oligomeric			
	prote	vins.	10		