Exam.Code:0040 Sub. Code: 0998

2062

B.Sc. (Hons.) Bio-Informatics Second Semester

BIN-2006: Introduction to Bioinformatics

Time allowed: 3 Hours

b) What is scoring functions?

Max. Marks: 60

(6+6)

P.T.O.

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

	x-x-x	
I.	Answer the following:-	
	a) What significance of flat file?	
	b) Why we do pairwise alignment?	
	c) What is ASN.2?	
	d) What is SP sum pair score?	
	e) What is amino acid ionization?	
	f) Discuss the role of studying MSA to understand biology of a cell.	
	g) What is sequence domain?	
	h) What is Motif?	(8x1½)
	<u>UNIT - I</u>	
II.	a) Write a note on PDB.	
	b) Discuss PIR.	(6+6)
III.	a) Discuss the role of NCBI resources.	
	b) Write a note on central dogma of molecular biology.	(6+6)
IV.	a) Write a note on SCOP & its significance.	
	b) Differentiate between Swissport and Uniport.	(6+6)
	<u>UNIT - II</u>	
V.	a) What are FASTA and its significance?	
	b) Differentiate Gap affine and opening penalty.	(6+6)
VI.	a) Discuss different level of Motifs and Profile.	

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(2)

VII. a) Discuss PAM & their applications.

b) Discuss classification of amino acids.

(6+6)

x-x-x