B.E. (Information Technology) Semester Seventh (C.B.S.) **Elective - I : Bio-Informatics**

	Pages : ne : Thr	ee Hours	 	0 8 8 4 *	<u> </u>	KNT/KW/16/7503 Max. Marks: 80	
6	Note	2. 3. 4. 5. 6. 7. 8.	Solve Question 1 OR Question 3 OR Question 3 OR Question 5 OR Question 7 OR Question 9 OR Question 9 OR Question 11 OR Question 11 OR Question 2 Question 11 OR Question 3 OR OR Question 4 OR Question 5 OR Question 6 OR Quest	tions No. 4 tions No. 6 tions No. 1 tions No. 1 estions No. neatness a ever necess	I. 5. 8. 0. 12. nd adequate dimensions.	ketches.	
)1(a)		pio-informatics? Explain it	s objective	S.	150 5	
	b)	ii) Data	tes on : a integration a analysis informatics tools		058	9	
		16		OF	R		
2.	a) b)	(C)	summarized metadata and rates on finding new type of	•		7	
3.	a)	Explain v	various applications of bioi	nformatics	in detail.	6	
	b)	Write a n	note on molecular biology.	Also expla O F	in system approach in biolog	gy. 7	
4.	a)	Explain o	central dogma of molecular	biology.		7	
	b) Explain various problems associated in bioinformatics approach and molecular approach.						
5.	a)	Explain structure of DNA and DNA replication. 6					
	b)	Explain t	he procedure for sequencir	g a DNA.		07	
6.	a)	i) Prot	tes on following terms : teins and amino acids	OI ii)	Protein structure	0/20	
		iii) Seco	ondary structure	iv)	Tertiary structure		

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16	b)	Explain Nucleic acid protein interaction in detail.					
7.	a)	Write a note on Linux Operating system.	6				
	b)	Give the brief introduction to biostatistics. OR	7				
8.	a)	Give the detailed introduction on CORBA.	5				
	b)	Write notes on: i) Perl ii) Java Clients	8				
9.	a)	Write a note on transcription factor binding sites and single nucleotide polymorphism.					
0	b)	Explain flat databases and object oriented databases.	7				
)(9	OR (150)					
10.		Explain following data retrieval techniques. i) Indices ii) Boolean search iii) Fuzzy search and neighbouring iv) Biological data warehouses	14				
11.	a)	Explain: i) Macromolecular structures ii) Chemical compounds iii) Generic variability	9				
	b)	Write a note on connection to clinical data of generic variability.	4				
	0	OR					
12.	a)	Explain following representations of patterns and relationships. i) alignments ii) regular expressions iii) hierarchies and graphical models.	13				
