CBCS Scheme

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16/17BBT22

## Second Semester M.Tech. Degree Examination, June/July 2018 Advanced Bio-Informatics

Time: 3 hrs.

Max. Marks: 80

		Note: Answer any FIVE full questions, choosing one full question from each m	odule.
		Module-1	
1	a. b.	Discuss various structural organization levels of proteins	(12 Marks)
			(04 Marks)
2	a.	Briefly explain Translation process during	
	b.	Translation process during protein synthesis.	(10 Marks)
		r sequencing technique.	(06 Marks)
		Module-2	
3		Briefly describe the role of NCBI in Bio – Informatic exercises	(08 Marks)
	b.	Write a note on Molecular Structural Database, with an example.	(08 Marks)
			(======================================
4	a.	What is Sequence Alignment? Discuss various types of Sequence Alignment me	60
Λ	(6)		
7	<b>b</b> .	Discuss the Application of Secondary Biological Databases.	(10 Marks)
320	)		(06 Marks)
-		What is Male 1 B 11 and 1 Module-3	1
5	a. b.	What is Molecular Docking? Add a note on its types.	(08 Marks)
	U.	Write a note on Lead Optimization and its role during Insilico drug designing.	(08 Marks)
		OR	
6	a.	Explain how ADNET plays an important role during drug discovery process.	(00 38 3 3
	b.	Discuss the scope and applications of Insilico drug design.	(08 Marks)
			(08 Marks)
7		Civa and Module-4	
,	a. b.	Give a short note on Street of Inc.	(10 Marks)
	υ.	Give a short note on Structural drug design.	(06 Marks)
		OR	
8	a.	Write short notes on: i) QSAR ii) Evolutionary Analysis	(10 M1-)
	b.	Briefly explain Predictive toxicology studies.	(10 Marks) (06 Marks)
			(oo marks)
0	9	Give a brief account on P	
	h	Give a brief account on Receptor Digand Interaction. Write a short note on Pharmacopore.	(10 Marks)
	0.	write a short note on Fharmacopore.	(06 Marks)
		OR OR	
10	Wr	ite short notes on :	
	a.	Scaffold hopping.	
	b.	Protein – protein Docking.	
	c.	Protein Modeling.	
	d.	Application of Phylogenetic Analysis.	(16 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and for equations written eg, 42+8 = 50, will be treated as malpractice.