Total No. of Questions: 8]			SEAT No:	
P 2	229	[5332]-22	[Total No. of Pages :2	
		M.Sc.		
		BIOTECHNOLOG	$\mathbf{G}\mathbf{Y}$	
		BT - 22 : Bioinforma	ntics	
		(2008 Pattern) (Semes	ter-II)	
Time	: 3 H	[ours]	[Max. Marks : 80	
		ns to the candidates:		
		Attempt total of five questions selecting at least Answers to the sections must be written in sepa	- *	
	•	Neat diagrams must be drawn whenever necess		
	<i>4</i>) <i>1</i>	Figures to the right indicates full marks.		
		SECTION-I		
Q 1)	Wha	at are types of publicaly available databas il.	es? Explain any one of them in [16]	
Q2)		cuss any one tool of bioinformatics used ect to its algorithm & advantages.	for homology searching with [16]	
Q3)	Give	e a brief account of:		
	a)	Study of gene expression using bioinform	matics. [8]	
	b)	Gene search using bioinformatic tool.	[8]	
Q4)	a)	What are different techniques used for en one of them in detail.	ergy optimization? Discuss any	

b) Explain the role of bioinformatics in structure based drug designing. [8]

SECTION-II

- Q5) How is protein structure predicted using bioinformatics tools? Explain with the help of a suitable example.[16]
- Q6) Discuss the role of immunoinformatics in biotechnology. [16]
- Q7) a) Which technique is used to determine structure function relationship in proteins?[8]
 - b) Discuss the role of bioinformatics in protein structure classification. [8]
- Q8) Write short notes on any two:

[16]

- a) Current research trend in bioinformatics.
- b) Academic research funding in bioinformatics.
- c) Bioinformatics business model.

