## 5223

## B. Sc. EXAMINATION

(Fourth Semester)

BIOTECHNOLOGY : BIOINFORMATICS

Ninth Paper

Time: Three Hours Maximum Marks: 40

**Note**: Q. No. 1 is compulsory. Attempt any *Four* questions by selecting *two* questions from each Unit.

- 1. Write short notes on the following:
  - (i) Bioinformatics
  - (ii) Secondary databases
  - (iii) BLAST

(iv) PDB.

 $2 \times 4 = 8$ 

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P.T.O.

## Unit I

2.	What is a Biol	logical	Database	?	Describe any
	two biological databases.			2+3+3=8	

- 3. What is a functional proteomics? Describe it. 4+4=8
- 4. What is information flow in biology? Describe different experimental approaches in genome sequence data. 2+6=8

## Unit II

- 5. What is Multiple Sequence Alignment? Write a note on it. 2+6=8
- 6. Write notes on the following: 4+4=8
  - (i) Predictive methods using protein sequences
  - (ii) Protein Information Resources.
- 7. Write a note on Small molecules databases.8