

Roll No.

(04/17-1)

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. 2×4=8

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P.T.O.

Unit I

2. What is a Biological 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

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200