

23/12/12
Exam. Code : 103203

Subject Code : 1368

B.A./B.Sc. 3rd Semester

BIOINFORMATICS

(Introduction to Bioinformatics & Biological Databases)

Time Allowed—3 Hours]

[Maximum Marks—75

1. Explain the following in not more than four sentences :
- Metabolomics
 - Functional genomics
 - Sequin
 - Pubmed
 - Primary database
 - Model organism
 - Swiss-prot
 - Prosite
 - Motif
 - PDB.
2. What is comparative genomics ? Discuss tools used for comparative genomics.

1.5×10=15

OR

Explain principle and application of pharmacogenomics.

15

3. What is Genbank sequence format ? Compare it with FASTA format. Explain the importance of sequence format.

OR

What are Entrez and SRS ? Discuss different tools used for searching biological databases.

15

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(Contd.)

4. Explain features and significance of any two protein sequence database.

OR

Discuss significance and feature of any two nucleotide sequence database. 15

5. What is BLAST? Compare it with FASTA.

OR

Mention any two RNA databases. Discuss their feature and significance. 15