Exam. Code : 103203

Subject Code : 1363

B.A./B.Sc. Semester—III

BIOINFORMATICS

(Introduction to Bioinformatics &

Biological Databases)

Time Allowed—3 Hours]   [Maximum Marks—75

SECTION—A

(Marks : 10×1.5=15)

1. Explain the following terms :

   (a) Proteomics

   (b) Transcriptomics

   (c) SRS

   (d) FASTA

   (e) Pubmed

   (f) Model organism

   (g) TIGR

   (h) PDBsum

   (i) GlycoSuiteDB

   (j) Redundant database.

SECTION—B

(Marks : 4×15=60)

2. What is comparative genomics ? Discuss tools and its application for comparative genomics.

OR

What is genome sequencing project ? Discuss in brief application of Bioinformatics tools in genome sequencing project.

3. What is biological database ? Discuss ASNI and NCBI data model.

OR

Discuss different types of tools used for data retrieval. What do you mean by sequence format ?

4. Mention any three nucleic acid or protein sequence databases ? Discuss their significance and features.

OR

Explain importance of model organism's genome databases. Discuss feature and significance of any genome database of a model organism.

5. What is PDB ? Explain features and importance of PDB.

OR

Discuss features and importance of Pfam and SCOR database.