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)

Explain the following terms : 1.

- (a) Proteomics
- (b) Transcriptomics
- (c) SRS
- (d) FASTA
- (e) Pubmed
- (f) Model organism
- (g) TIGR
- (h) PDBsum
- (i). GlycoSuiteDB
- Redundant database. (i)

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1

(Contd.)

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## SECTION-B

# (Marks : 4×15=60)

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

## OR

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

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

## OR

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

Mention any three nucleic acid or protein sequence 4. 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.

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

OR

Discuss features and importance of Pfam and SCOR database.

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2

200

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