

Exam. Code : 103203

Subject Code : 1330

B.A./B.Sc. 3<sup>rd</sup> Semester

BIOINFORMATICS

(Introduction to Bioinformatics & Biological Databases)

Time Allowed—3 Hours] [Maximum Marks—75

1. Explain the following in not more than **four** sentences :— 1.5×10=15
- (a) Population genomics
  - (b) Bioinformatics
  - (c) Webin
  - (d) AutoDep
  - (e) Secondary Database
  - (f) DDBJ
  - (g) Swiss-prot
  - (h) Prosite
  - (i) SCOR
  - (j) NDB.
2. What is genomics ? Discuss tools used for genomics study. 15

OR

Explain principle and application of pharmacogenomics.

3. Discuss significance of open access literature databases with examples. 15

**OR**

What are Sequin and SRS ? Discuss different tools used to submit data in biological databases.

4. Explain features and significance of any two eukaryotic genome databases. 15

**OR**

Discuss significance and feature of any two protein sequence database.

5. What is FASTA ? Explain different types of BLAST. 15

**OR**

Mention any two motif or pattern databases. Discuss their feature and significance.