M.Sc. Bio-Informatics- Ist Sem.

(2118)

Paper: BT-515

Introduction to Bioinformatics & Biological Databases

Time allowed: 3 hrs. Max. Marks: 75

Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section. 15X5=75

Section A

1) a) What are genetic code and ORF? Explain differences between intron and exon.

5 Marks

b) What is PCR? Discuss methods used for DNA sequencing.

10 Marks

OR

 Explain bioinformatics? Discuss major milestones and application of bioinformatics in biological sciences.
15 Marks

Section B 15 Marks

3) What is a literature database? Discuss different types of biological databases with examples.

OR

4) Discuss features and significances of any one nucleotide and one protein database.

Section C 15 Marks

5) What are Flybase and TAIR? Discuss significance of any one genome database.

6) What are Prosite and Pfam? Discuss significance of pattern database.

Section D 15 Marks

7) What is PDB? Discuss feature and significance of a database of small molecule.

Or

8) What do you understand by file format? Discuss GenBank, MSF and SDF format.
