



- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram wherever necessary.
 3. Avoid vague answers.

1. Either
 - a) Define Bioinformatic? Enlist the applications of Bioinformatics. 8
 - b) Explain Data Retrieval Tools. 8

OR

 - c) Explain Data mining of Biological Databases. 8
 - d) Explain Tools for web search in detail. 8
2. Either
 - a) Discuss Genome Analysis and Genome mapping. 8
 - b) Explain Human genome project in detail. 8

OR

 - c) Enlist the application of Genetic maps. 8
 - d) Explain methods of sequence Alignment. 8
3. Either
 - a) Differentiate between FASTA and BLAST. 8
 - b) Explain Tree Evaluation in detail. 8

OR

 - c) Enlist the applications of multiple alignments. 8
 - d) Explain phylogenetic analysis in detail. 8
4. Either
 - a) Discuss Gene prediction methods. 8
 - b) Explain structure Based protein classification. 8

OR

 - c) Explain DNA micro arrays. 8
 - d) Discuss protein structure Visualization in detail. 8
5. Solve all the questions.
 - a) Explain major Databases in Bioinformatics. 4
 - b) Write a note on Genome sequencing. 4
 - c) Explain Filtering BLAST. 4
 - d) Write a note on protein Identification. 4
