**CSC 262**

**Assignment**

1(a) List and discuss any three (3) criterion of database searching

1(b) Explain briefly Basic Local Alignment Search Tool (BLAST) as used in database similarity searching

2(a) Briefly discuss the differences between Dayhoff PAM Matrices and BLOSUM Matrices

2(b) Explain briefly Heuristic Database Searching

3(a) Define the following (i) Sequence Homology (ii) Sequence Similarity

(iii) Sequence Identity

3(b) (i) Give any three (3) methods of Alignment Algorithm

(ii) Discuss briefly Pairwise Sequence Alignment

4(a) Differentiate between Global Alignment and Local Alignment

4b Distinguish between the following

1. Sequence Homology and Sequence Similarity
2. Sequence Similarity and Sequence Identity