Bioinformatics

- (a) Describe with one example the difference between Hamming and Edit distances. [2 marks]
- (b) Discuss the Smith–Waterman algorithm. What is the complexity and the relationship with the problem of finding the longest common subsequences? [5 marks]
- (c) Describe the Banded algorithm for local alignment and its complexity.

[5 marks]

(d) Describe the four Russian speedup algorithm. [8 marks]