**Sequence alignment**

1- Define the global and local alignments

2- What are the differences between local alignment and global alignment?

3- Align the following sequences using global alignment

Match score = +5

Mismatch = -4

Gap= -4

a)

AACTTGGCAT

CGCTTAG

b) GCTGGAAGGCAT

GCAGAGCACG

4- Align the following sequences using local alignment

Match score = +5

Mismatch = -4

Gap= -4

a)

AACTTGGCAT

GCTTA

b) GCTGGAAGGCAT

TTAGCACG