

Q5

///	-	A	G	T	T	C
-	0	-2	-4	-6	-8	-10
A	-2	2	0	-2	-4	-6
T	-4	0	1	2	0	-2
T	-6	-2	-1	3	4	2
G	-8	-4	0	1	2	3
C	-10	-6	-2	-1	0	4

match : +2
 mismatch : -1
 gap : -2

1 ↓

2 →

3 ↓

Alignment Score

Optimal score = 4

Alignment :

A - T T G C
 | | | | |
 A G T T - C

A T T G C
 | | | | |
 A G T T C

Q6

///	-	T	A	T	A	G
-	0	-2	-4	-6	-8	-10
G	-2	-1	-3	-5	-7	-9
T	-4	0	-2	-1	-3	-5
T	-6	-2	-1	0	-2	-4
A	-8	-4	0	-2	2	0
C	-10	-6	-2	-1	0	1

match: +2
mismatch: -1
gap: -2

Score = 1

↑
alignment
Score

Alignment: G T T A C

 | |
 T A T A G

G T - T A C

 | | |
- T A T A G

Not unique!