

Name: _____
Bioinformatics Quiz #1
02/02/2009

1)

What does BLAST stand for? [10 points]

2)

Use the appropriate dynamic programming algorithm to **LOCALLY** align the sequences below. Use +2 for a match, -2 for a mismatch, and -1 for a gap.
Show **ALL** optimal alignments. [40 points]

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

What is the name of the algorithm? [10 points]

What is the score of the/all optimal alignment(s)? [10 points]

Calculate the p-value for the observed score using the score distribution below:
[30 points]

