Quiz C, Biochem 1 Name:

Please write your name on the other side

1) Draw the peptide DVMHSK (in the N -> C direction).

Draw chemically correct sidechains.

Indicate proper stereochemistry at all C.

Label two adjacent pairs of torsion angles phi and psi.

Draw a box around 2 consecutive sets of coplanar atoms.

Draw all the peptide bonds in the dominant resonance structure, except the peptide bond between S and K, which is to be drawn in the alternative resonance structure.

Indicate dominant protonation states if the pH is 5.

1) Draw the peptide RTK (iin the C -> N direction).

Draw chemically correct sidechains.

Indicate proper stereochemistry at all C.

Indicate correct protonation states if the pH is 7.0.

2) Draw the chemical reaction for the reduction of a disulfide by b-mercaptoethanol.