BCH210H Fall 2025 Posted Midterm Answers

1. Which ONE of the following polypeptides only contains letters that are used to represent the amino acid one letter codes?

   Answer: A-N-I-M-E-F-A-N

   L3 – Amino Acid Structures. Please review the 1-letter codes for the 20 amino acids.

2. Which ONE of the following is primarily responsible for the solubility of a secreted protein?

   Answer: Hydrogen bonding with exposed hydrophilic amino acids.

   L1, L3 and L5 – Hydrophilic amino acids on the surface of a protein can form hydrogen bonds with water, contributing to a protein's solubility.

3. The following molecule is made from an amino acid in a single enzyme-catalyzed reaction: