## **ACS Biochemistry Final**

pKa (chapter 3) measure of the tendency of a group to give up a proton (acidity); tendency decreases tenfold as pKa increases by one unit thioester bond (1) compounds with functional group C-S-CoA-C (eg. in acetyl-CoA) zwitterion (3) dipolar ion with both positive and negative groups but overall neutral charge; can act as either an acid or base Isoelectric point (pl) (chapter 3) the characteristic pH at which the net electric charge is zero SDS - Sodium Dodecyl Sulfate (chap 3) detergent used to unfold proteins and give them uniform negative charge SDS Page (3) chromatography used to separate proteins based on mass, light proteins travel fast than heavier ones PCR - Polymerase chain reaction (3) copies DNA multiple times to increase sample size Isoelectric focusing (chapt 3) procedure used to determine the isoelectric pt (pl) of a protein. Protein migrates through gel until pH = pl (net charge = 0) Two-Dimensional Electrophoresis (3) combines isoelectric focusing and SDS electrophoresis; separates proteins by both molecular weight and pl specific activity (3) number of enzyme units per mg of total protein (a measure of enzyme purity) activity (3) total units of a certain enzyme in a solution Peptide bonds (chapter 4) C-N bond with double bond character due to resonance (C-N bond cannot rotate, and is planar) Edman degredation (3) used in the sequencing of polypeotides; labels and removes ONLY the amino-residue from a polypeptide, carried out in a machine called a sequenator φ in peptide bonding (chapter 4) angle around the a-carbon - amide nitrogen bond ψ in peptide bonding (chapter 4) angle around the q-carbon - carbonyl carbon bond Ramachandran Plot (4) shows favoreable φ-ψ angle combinations. 3 main "wells" for α-helices, β-sheets, and left handed α-helices Levinthal's Paradox (4)

# **Acs Biochemistry Final Study Guide**

**Jicheng Xie** 

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