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## Chapter 3 Amino Acids Peptides Proteins Multiple Choice

**chapter 3 amino acids - minificiones** - amino acids are precursors to other biomolecules, such as hormones, nucleic acids, lipids and, as just mentioned, proteins this chapter, we examine the fundamental chemical properties of amino acids. 3.1 proteins are built from a repertoire of 20 amino acids 3.2 amino acids contain a wide array of functional groups 3.3 essential amino acids must be **chap. 3. amino acids and the primary structures of ...** - chap. 3. "amino acids and the primary structures of proteins" reading assignment: pp. 52-72 & 78-80. problem assignment: 1, 4, 6, 8-9, 14, 16. i. introduction to protein functions. proteins carry out most of the work and provide much of the supporting framework of **bcmb 3100 - chapter 3 (pink: make up ~ 97% mass of ...** - and protonated -amino group (pka 8.7-10.7) (table 3.1, pg 43 gives specific pka values) the \_\_\_\_ are also ionizable. the pka of these r groups can range from 3.9 to 12.5. you must memorize the pka's of the side chains of these seven amino acids! 38 bcmb 3100 - chapter 3 • diversity of protein function **chapter 3 - amino acids - university of manitoba** - chapter 3 - amino acids  $\alpha$ -amino acids are the main constituents of proteins. but they also can function as neurotransmitters (glutamate,  $\gamma$ -aminobutyric acid), hormones (thyroxine; see right), as bacterial cell wall components (d-alanine) and are intermediates in many metabolic pathways e.g. glycine is a precursor to heme. **chapter 3: nucleic acids, proteins, and enzymes - weebly** - chapter 3: nucleic acids, proteins, and enzymes 1 key terms activation energy (ea) active site . adenine (a) allosteric regulation .  $\alpha$  (alpha) helix. amino acids .  $\beta$  (beta) pleated sheet. base guanine (g) catalysts noncompetitive inhibitor. competitive inhibitor thymine (t) complementary base pairing. cytosine (c) denatured . deoxyribose ... **chapter 3.2 proteins - goldie's room** - monomer = amino acids 20 different amino acids polymer = polypeptide protein can be 1 or more polypeptide chains folded & bonded together large & complex molecules complex 3-d shape amino acids structure: central carbon amino group carboxyl group (acid) r group (side chain) variable group confers unique chemical properties **3.#amino#acids#(chapter#4)# - peopleem.umass** - a nonpolar amino acid is an amino acid that contains one amino group, one carboxyl group, and a nonpolar hydrophobic side chain. nonpolar# $\alpha$ ?amino#acids# 13 a polar neutral amino acid contains a side chain that is polar but neutral at physiological ph (side chain can form h-bonds). polar#neutral# $\alpha$ ?amino#acids# 14 a polar acidic amino acid is an amino acid that contains one amino group **chapter 3: amino acids & polypeptides** - the most widely used reagents for amino acids, peptides, and proteins • reacts with amino groups • the major step is oxidative deamination of an amino acid to  $CO_2$ ,  $NH_3$ , and an aldehyde containing one less carbon atom than the original amino acid • ninhydrin is simultaneously reduced to ninhydrindantin •

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