

Name _____

Period _____

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Proteins & Protein Structure Worksheet

By the end of this packet, you will know the answer to the following questions:

1. What elements are proteins made of?
2. What is the structure of a protein?
3. How are proteins used in the body?

Background Reading:

Overview:

Proteins are a diverse group of macromolecules (see *Figure to the right*). Proteins are composed of one or more amino acids. There are only 20 different amino acids in the human body! Yet, the genomes (DNA code) of most organisms specify the amino acid sequences of thousands or tens of thousands of proteins.

Amino acids can be theoretically linked to form protein molecules in any imaginable size or sequence. For example, in a protein made of 100 amino acids, there are trillions of possible protein sequences. However, only a small fraction is actually produced in all living organisms. An important reason for this is because there is a complex set of structural and functional properties of naturally occurring proteins. This selection has evolved over billions of years in response to natural selection.

Proteins serve as structural materials in all living organisms (ex: actin and myosin in animal muscle cells). Proteins are also involved in diverse functions, such as catalysis (speeding up of chemical reactions), metabolic regulation (communication vs hormones), transport (muscle fibers), and defense (antibodies from white blood cells).

To the right you will find the structures of various amino acids found in the human body. **Note:** All amino acids have the elements CHON in their chemical makeups.

Nonpolar Amino Acids



Glycine (Gly)



Alanine (Ala)



Valine (Val)



Leucine (Leu)



Isoleucine (Ile)



Phenylalanine (Phe)



Tryptophan (Trp)



Methionine (Met)



Cysteine (Cys)



Proline (Pro)

Polar Amino Acids



Serine (Ser)



Threonine (Thr)



Tyrosine (Tyr)



Asparagine (Asp)



Glutamine (Gln)

Acidic Amino Acids



Aspartate (Asp)



Glutamate (Glu)

Basic Amino Acids



Lysine (Lys)



Arginine (Arg)



Histidine (His)

Protein Structure Answer Key Packet

DP Hallahan



Protein Structure Answer Key Packet:

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diagrams created to represent attributes as well as entities and relationships may be called entity attribute relationship diagrams rather than entity relationship models an er model is typically implemented as a database in a simple relational database implementation each row of a table represents one instance of an entity type and each

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oct 2 2020 here s the basic order to follow 1 determine the entities in your erd start by identifying the what s in your system or architecture entities are represented with a rectangle and you ll want to give them plenty of room so that you

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design relationships and entity relationship diagrams designing queries and establishing a data dictionary are important and attributes and relationships should be clearly defined

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what is an entity relationship diagram erd erd stands for entity relationship diagram people also call these types of diagrams er diagrams and entity relationship models an erd visualizes the relationships between entities like people things or concepts in a database an erd will also often visualize the attributes of these entities

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an entity relationship diagram shows a simple database for the business order process the entity relationship diagram shown in the above image contains six entities supplier customer order item product and shipment there are five kinds of relationship such as supplied by requested on used in included on and sent by

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