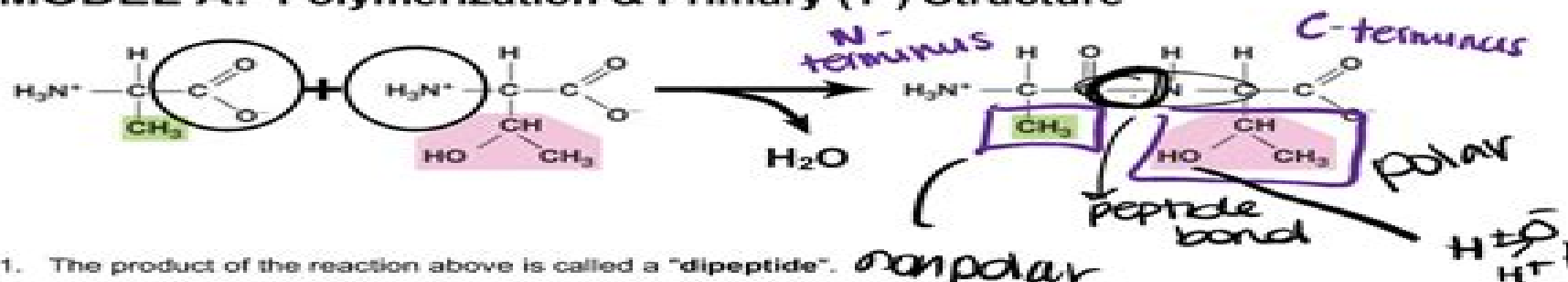
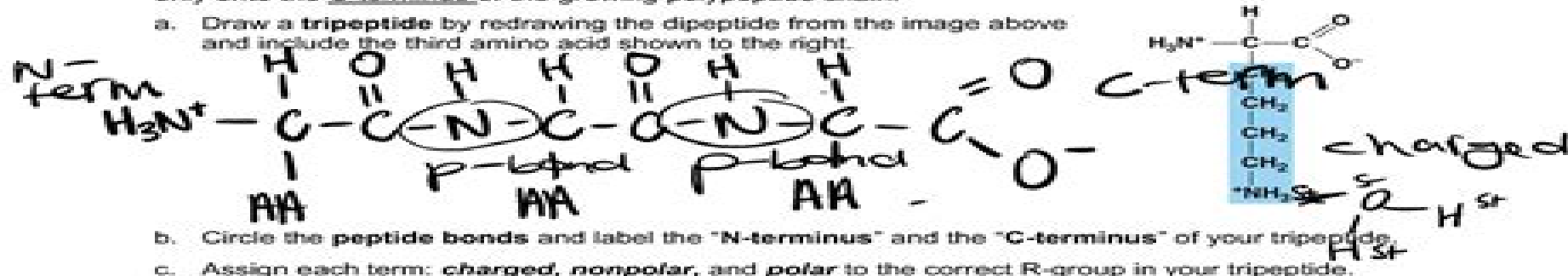


# **MODEL A: Polymerization & Primary (1°) Structure**



1. The product of the reaction above is called a "dipeptide".
  - a. Which two functional groups are involved in this reaction? Circle and label these two groups on the reactants. **Carboxyl and amino group**
  - b. Circle and label the new **peptide bond** formed between the two amino acids.
  - c. Does a peptide bond involve the amino acid "**backbone**" or **R-groups**? (Circle one.)
  - d. Draw a square around each **amino acid** in the dipeptide. An amino acid that is part of a polypeptide chain is referred to as a "**residue**."
  - e. Label the "**N-terminus**" and the "**C-terminus**" (also known as the amino- and carboxy-termini) of the dipeptide molecule. ("terminus"="end")
2. The addition (**polymerization**) of amino acid **monomers** is directional, with new amino acids added only onto the C-terminus of the growing polypeptide chain.



- a. Draw a **tripeptide** by redrawing the dipeptide from the image above and include the third amino acid shown to the right.
- b. Circle the **peptide bonds** and label the "**N-terminus**" and the "**C-terminus**" of your tripeptide.
- c. Assign each term: **charged**, **nonpolar**, and **polar** to the correct R-group in your tripeptide.
- d. Two of your R-groups are **hydrophilic** and can form **hydrogen bonds** with water. Draw two H<sub>2</sub>O molecules interacting with your tripeptide, using dotted lines to represent the hydrogen bonds. Label the partial charges of the atoms involved in each hydrogen bond you draw.

# Pogil Protein Structure Answer Page 4

**Harold Abraham Scheraga**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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web bending moment which are transferred into foundations it requires proper design of a column base in the case of small values of bending moments usually a simple base plate with suitable thickness is sufficient calculation of column bases with such geometry is shown in eurocode 3 1

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web fixed baseplate design user manual download sample report open calculation the scope of this calculation module is to design fixed base plate for uniaxial moments and axial loads transferred from steel column to foundation concrete with or without stiffener plates axial load can either be tensile or compressive in nature

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web stiffeners are secondary plates or sections which are attached to beam webs or flanges to stiffen them against out of plane deformations almost all main bridge beams will have stiffeners however most will only have transverse web stiffeners i e vertical stiffeners attached to the web deep beams sometimes also have longitudinal web stiffeners

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web aug 22 2020 i think the method for base plate design case with m and n dimensions is mainly for concentrically loaded column or with small eccentricities for large moment with resultant force fall outside of the kern you should use other methods

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web tekla structures 2023 stiffened base plate 1014 creates a base plate that is connected to a column end objects created  
base plate stiffeners shim plates optional leveling plate optional shear key optional extra plates connecting the anchor rods  
anchor rods bolts welds additional component optional use for before you start