QA1 - Amino Acid Biochemistry

1. How many possible different tripeptides could form, by combining three different amino acids?

2. Draw a tripeptide formed from the following amino acids: valine, tyrosine, and glycine

   ![Valine](image1.png) ![Tyrosine](image2.png) ![Glycine](image3.png)

3. Draw the products of the following reaction

   ![Reaction](image4.png)
4. Using the following diagram, define the terms **Primary Structure**, **Secondary Structure**, and **Tertiary Structure**. In your answer, explain how these structures form.

5. Explain what would need to happen to the protein, for it to have a quaternary structure, and to be a conjugated protein.

6. How do genes determine the overall structure of a protein?