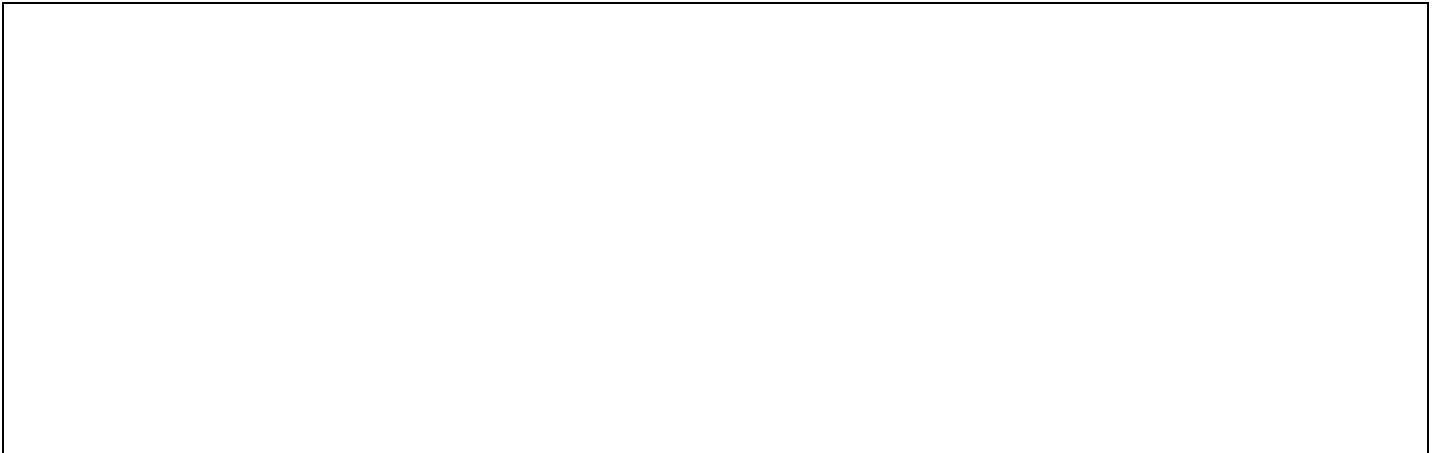


2.4 Proteins

Protein Structure

Draw the basic structure of a generalised amino acid



Outline the structural organisation of a polypeptide chain (monomer → polymer)

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Draw the basic structure of a generalised dipeptide



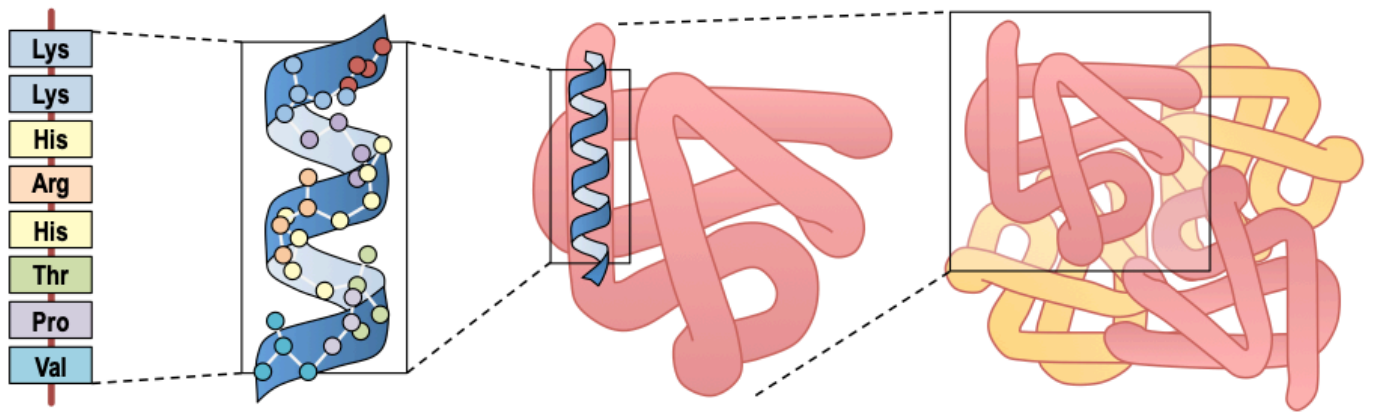
Identify the number of different amino acids present in nature and how they are distinctive

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Explain, with the aid of the diagram, the levels of protein structure and indicate their significance



Primary Structure:

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Secondary Structure:

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Tertiary Structure:

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Quaternary Structure:

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Protein Function

List seven functions of protein, providing an example for each

- S
- H
- I
- T
- S
- M
- E



Define denaturation

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Identify two factors that can cause protein denaturation and explain how this occurs

1.
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2.
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Outline the relationship between genes and polypeptides

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Define proteome

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