

Solutions

Each answer shows the steps, then the **result**.

2.1

- Amino acids; peptide bonds

2.2

- The sequence (order) of amino acids

2.3

- Heat or a change in pH

3.1 B

- its three-dimensional shape

3.2

(a)

- Denaturation

(b)

- Heat breaks the bonds holding the protein's shape, so it unfolds; its active site no longer fits the substrate, so it cannot function

3.3

- A different amino acid can change how the chain folds, altering the 3-D shape; if the active site or key region changes, the protein's function can be reduced or lost