Section B

1. (a) Amino Acids
(b) Hydrolysis is the breakdown of a compound using water
(c) Amide or Peptide link
(d) 

2. An essential amino acid is an amino acid which cannot be made by the body and must be present within our diet.

4. Nitrogen, Hydrogen, Carbon and Oxygen

5. The enzyme will be denatured in acidic conditions
6. Amide link

![Amide Link Diagram]

7. (a) Hydrogen Bonding
(b)

![Hydrogen Bonding Diagram]
8. (a) Hydrolysis
(b)
\[
\begin{array}{cccccc}
\text{H} & \text{O} & \text{H} & \text{O} & \text{H} & \text{O} \\
\text{N--C—C—N—C—C--N—C—C—} \\
\text{H} & \text{H}
\end{array}
\]
(c) condensation
(d)
\[
\begin{array}{c}
\text{H} \\
\text{N—H} \\
\text{H—C—H} \\
\text{O} \\
\text{O} \\
\text{ion at high pH}
\end{array}
\]