AQA AS/A-level Year 1 Biology exam practice answers

1 Biological molecules

**1 (a)** The left-hand graph shows the competitive inhibitor and the right-hand graph shows the non-competitive inhibitor.

**(b)** The effect of a competitive inhibitor can be overcome by adding more substrate whereas the effect of a non-competitive inhibitor cannot.

**2** Proteins are made from 20 different monomers (amino acids), which can be joined in any sequence, giving an infinite variety. Starch and glycogen have just one monomer (glucose).

**3** It is too large to pass out of the cells/across cell membranes.

**4** A = 21% because each one will be attached to a T. If A and T = 42%, G and G must be 58%, so C and G will be 29% each.