Chemguide - questions

PROTEINS: ENZYME INHIBITORS

1. The Chemguide page has the following example of a competitive inhibitor. It relates to the enzyme succinate dehydrogenase, which catalysis the conversion of succinate ions to fumarate ions.



b) Competitive inhibition is reversible. Explain what that means. How would you use this to overcome the inhibition to get the reaction you want?

2. a) Some inhibitors are *non-competitive*. Explain in general terms how these inhibitors work.

b) Is non-competitive inhibition reversible or non-reversible. Explain your answer.

c) Heavy metal poisoning by ions such as Ag^+ or Hg^{2+} is an example of non-competitive inhibition. Explain briefly how these ions have an effect on enzyme structures which causes non-competitive inhibition.