

3 Enzymes – Part 1 —Answers

Answers

Work through these after you have tried the questions yourself.

2.1 it lowers the activation energy of the reaction, without being used up.

2.2 its active site has a specific shape that only the matching substrate fits into (lock and key).

2.3 it denatures –the protein loses its shape, so the active site no longer fits the substrate and the enzyme stops working.

2.4 the rate rises as it warms toward the optimum, is fastest at the optimum, then falls sharply as the enzyme denatures.

2.5 it slows the enzyme down (by blocking the active site or changing the enzyme's shape).