

## 4.1

## Summary Questions

- 1 a protein (1)  
 b amino acids (1)  
 c specific, 3D shape / tertiary structure (1); (formation of) active site (1); binds to substrate(s) (1); catalyses reaction (1)
- 2 Catabolism is breaking down of molecules (1); anabolism is building of molecules (1); reactions involve breaking down and building of molecules (1); idea of metabolism is sum of all reactions (1).
- 3 a simple / easy to understand (1); representation (1).  
 b Both models substrate interacts with R groups in active site (binds) (1); (leading to) bond strain in substrate molecule (1); *Lock and Key* substrate is complementary to active site (of enzyme) (1); *Induced fit* active site is flexible (1); (active site) changes shape as substrate binds, closer fit between active site and substrate.
- 4 a energy required (1); to start reaction (1)  
 b bonds are broken (1); in substrate (1); energy required (1); energy (of system (increases) (1)  
 c idea of improved technology (1); idea of continually investigated (1); more evidence (1); more accurate representation (1).

## 4.2

## Enzymes in action

Extremities are at, same temperature as rest of the body / higher temperature than normal, in womb (1); enzyme / tyrosinase, not denatured (1); pigment is broken down (1).

## Investigations into the effects of different factors on enzyme activity

- 1 easy to obtain (1); contains catalase (1)  $2\text{H}_2\text{O}_2 \rightarrow 2\text{H}_2\text{O} + \text{O}_2$
- 2 reactant (1); products (1)
- 3 volume of oxygen released increased (1); figures quoted (1); enzyme / catalase, catalysed reaction (1)
- 4 Enzymes are proteins (1); (boiling) denatures protein (1); tertiary structure (of protein) changed (1); active site no longer complementary to substrate (1); fewer enzyme-substrate complexes formed (1); decreased reaction rate (1).
- 5 Same apparatus (1); range of hydrogen peroxide concentrations (1); temperature kept constant (1); ruler used to measure change in water height (1); readings taken at set time intervals (1); radius/diameter, of test-tube used to calculate volume (of gas collected) (1); repeats (1).
- 6 a independent variable – concentration (hydrogen peroxide) dependent variable – volume of gas collected (1) b controlled variables – concentration of hydrogen peroxide (1); volume of hydrogen peroxide (1); mass of liver tissue (1); surface area of liver tissue (1).
- 7 only independent variable / temperature, is only factor that is changed (1)
- 8 a reading that, lies outside the normal range / does not follow trend (1)  
 b 55 test 2 100 at 20 seconds
- 9 reliability / identify anomalies (1)
- 10 correct graph – axes including units (1); plots (1); lines of best fit (1); use of graph paper (1)
- 11 (Initial) rate of reaction higher with higher concentration (of substrate) (1); more substrate present (1); more enzyme-substrate complexes formed (per unit time) (1); shown by steeper line (1); rate of reaction, slows down / plateaus, as substrate used up (1); lower plateau at lower substrate concentration (1).
- 12 results are valid because – reliability is good as repeats are (relatively) consistent (1); expected trend observed (1); only one anomaly (1); many intermediates (1) results may not be valid because – only three different concentrations (of substrate) used (1); temperature, may have changed / not controlled (1); pH, may have changed / not controlled (1); may have been timing errors (1).

## Serial dilutions

Serial dilution (1); described e.g., 1 ml of stock solution and 9 ml of distilled water (1);  $2 \text{ mmol dm}^{-3}$  solution (1); repeat with diluted solution (s) (1);  $0.2 \text{ mmol dm}^{-3}$  and  $0.02 \text{ mmol dm}^{-3}$  and  $0.002 \text{ mmol dm}^{-3}$  (1)

## Summary Questions

# Ocr Biology May 2014 Answers

**SA Adler**



## **Ocr Biology May 2014 Answers:**

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