

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 interact 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 65 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 mmol dm^{-3} solution (1); repeat with diluted solution (s) (1); 0.2 mmol dm^{-3} and $0.02 \text{ mmol dm}^{-3}$ and $0.002 \text{ mmol dm}^{-3}$ (1)

Summary Questions

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1. Understanding the eBook Ocr Biology May 2014 Answers
 - The Rise of Digital Reading Ocr Biology May 2014 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Biology May 2014 Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ocr Biology May 2014 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Biology May 2014 Answers
 - Personalized Recommendations
 - Ocr Biology May 2014 Answers User Reviews and Ratings
 - Ocr Biology May 2014 Answers and Bestseller Lists
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 - Ocr Biology May 2014 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Biology May 2014 Answers
 - Highlighting and Note-Taking Ocr Biology May 2014 Answers
 - Interactive Elements Ocr Biology May 2014 Answers
- 8. Staying Engaged with Ocr Biology May 2014 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr Biology May 2014 Answers
- 9. Balancing eBooks and Physical Books Ocr Biology May 2014 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Biology May 2014 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr Biology May 2014 Answers
 - Setting Reading Goals Ocr Biology May 2014 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr Biology May 2014 Answers
 - Fact-Checking eBook Content of Ocr Biology May 2014 Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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