

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 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

Ocr Biology May 2014 Answers

SA Adler



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OCR A2 Biology Student Unit Guide: Unit F215 Control, Genomes and Environment Richard Fosbery, 2010-02-26
Student Unit Guides are perfect for revision Each guide is written by an examiner and explains the unit requirements summarises the relevant unit content and includes a series of specimen questions and answers There are three sections to each guide Introduction includes advice on how to use the guide an explanation of the skills being tested by the assessment objectives an outline of the unit or module and depending on the unit suggestions for how to revise effectively and prepare for the examination questions Content Guidance provides an examiner s overview of the module s key terms and concepts and identifies opportunities to exhibit the skills required by the unit It is designed to help students to structure their revision and make them aware of the concepts they need to understand the exam and how they might analyse and evaluate topics Question and Answers sample questions and with graded answers which have been carefully written to reflect the style of the unit All responses are accompanied by commentaries which highlight their respective strengths and weaknesses giving students an insight into the mind of the examiner

OCR A2 Biology Unit F214: Communication, Homeostasis and Energy Richard Fosbery, 2009-10-30 Student Unit Guides are perfect for revision Each guide is written by an examiner and explains the unit requirements summarises the relevant unit content and includes a series of specimen questions and answers There are three sections to each guide Introduction includes advice on how to use the guide an explanation of the skills being tested by the assessment objectives an outline of the unit or module and depending on the unit suggestions for how to revise effectively and prepare for the examination questions Content Guidance provides an examiner s overview of the module s key terms and concepts and identifies opportunities to exhibit the skills required by the unit It is designed to help students to structure their revision and make them aware of the concepts they need to understand the exam and how they might analyse and evaluate topics Question and Answers sample questions and with graded answers which have been carefully written to reflect the style of the unit All responses are accompanied by commentaries which highlight their respective strengths and weaknesses giving students an insight into the mind of the examiner

The Rights Revolution Revisited Lynda G. Dodd, 2018-01-25 Examines the implementation of the rights revolution bringing together a distinguished group of political scientists and legal scholars who study the roles of agencies and courts in shaping the enforcement of civil rights statutes

Revision Plus Ocr B Gcse Biology Workbook Answers Jacqui Punter, 2008-02-01

Gcse Biology Ocr Gateway Answers (for Workbook) Richard Parsons, 2006-08 GCSE Biology OCR Gateway Answers for Workbook

Revision Plus Ocr A Gcse Biology Workbook Answers E. Attridge, 2008-02-01

GCSE Biology OCR 21st Century Higher Answer Book Richard Parsons, 2007-09-01 GCSE Biology OCR 21st Century Answers for Workbook Higher

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Autonomous Province(IS), 1981. A Courageous People from the Dolomites, by Bonifacio ... A Courageous People from the Dolomites, by Bonifacio Bolognani. Pbk, 1984 ... Immigrants from Trentino to USA. Subject. Catholicism, Italian immigration.

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