

7. GROUPS 1 & 2

SECTION B

Answer ALL the questions. Write your answers in the spaces provided.

- 1 Magnesium oxide, known as magnesia, can be produced by the thermal decomposition of magnesium carbonate.

The equation for the reaction is



- *(a) Other Group 2 carbonates also undergo thermal decomposition.

State and explain the trend in thermal stability of carbonates down Group 2.

(4)

Thermal stability increases down the group

Because ionic radius increases as you go down the group

This results in less polarisation (distortion) of the carbonate ion

And less weakening of the covalent bonds (C-O) within the carbonate ion

- *(c) State why carrying out a flame test is not an appropriate way to confirm the presence of magnesium ions in the sample of magnesia.

(1)

Magnesium ions give no flame colour

OR

Energy is emitted with Mg ions is outside of the visible region

(Total for Question 1 = 15 marks)

Edexcel A2 Biology Past Papers

Shasha Hu



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Edexcel A2 Biology Student Unit Guide: Unit 4 The Natural Environment and Species Survival Mary

Jones,2009-06-26 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

So You Want to be a Doctor? Stephan Sanders,Harveer Dev,David Metcalfe,2013-10 This is a guide to getting into medical school Each chapter guides you through another step of the process from deciding if medicine is for you and choosing a medical school to passing UKCAT and BMAT exams applying to Oxbridge and getting through the interview

So you want to be a Doctor?: The ultimate guide to getting into medical school Stephan Sanders,Harveer Dev,David Metcalfe,2010-12-09 More people are applying to medical school than ever before and *So you want to be a Doctor* will give you the best head start It distils the wisdom of over 100 medical students admissions specialists and doctors revealing the truth about the medical school application process This comprehensive guide leads the reader through every stage of the process from deciding if you want to be a doctor through to moving to university and coping with the first year at medical school With a detailed profile for every undergraduate and graduate medical school in the UK it will help students to choose the best medical school for them It will also help with the other big decisions that need to be made such as which A level subjects to take and whether to apply to Oxbridge All the essential information is covered including BLhow much medical school costs BLwhat work experience is best and how to get it BLcompleting the UCAS form BLsurviving the UKCAT and BMAT admission tests BLgetting through the interview Written by an author team of a medical student recent graduate and a widely experienced clinician the book also contains first hand accounts of students personal experiences and advice and information from people on the inside of the admissions process

Edexcel AS Biology Revision Guide Gary Skinner,Stephen Winrow-Campbell,John Dunkerton,2009 Written by experienced examiners this revision guide for AS provides tailored support for the 2008 specification Featuring guidance from the people who write and mark exam papers and drawing on real exam data from Edexcel s ResultsPlus service students can be confident they are designed to specifically meet their needs

Longman As Biology Phil Bradfield,2001

Ensuring smooth progression from GCSE and success in AS and A2 Level Biology Written to meet the requirements of the new AS A2 Level Biology specifications these highly illustrated texts provide full coverage of the AQA A specification and Edexcel Option C The AS text helps students bridge the gap between GCSE and AS Level while the A2 text helps them progress successfully on to the synoptic section of the A2 course Attractive and easy to use clear full colour page design highlighted key points and accessible language help less able students identify main concepts Smooth progression and differentiation each topic gets progressively more difficult and includes self assessment questions with answers to help students monitor their development Synoptic questions are provided at the end of the A2 text to test a variety of topics and draw together AS and A2 Biology Assessment and revision summaries key facts and definitions help students revise while end of chapter questions for all abilities develop exam technique Answers are provided to all the questions in the texts Key skills questions suitable for demonstrating Key Skills are highlighted Contents List AS Level Biology Cells Cell Membranes Biological Molecules Enzymes DNA structure and function Cell Division Reproduction in mammals Reproduction in flowers Gas exchange Heart and blood vessels Blood structure and function Transport in flowering plants Heterotrophic nutrition Ecosystems Effects of humans on ecosystems Gene technology Human health and disease Coverage of the modules is comprehensive and rigorous with a clear emblem used to indicate the match between each chapter or sections within them and the specifications This book is beautifully designed the standard of illustrations is mostly superb This is unquestionably an excellent resource See also A2 Level Biology 0582 429455 British Humanities Index ,2005 **A2-Level Biology**

Edexcel Complete Revision & Practice Richard Parsons,2009-06 A2 Level Biology Edexcel Complete Revision Practice

A2 Biology with Stafford MR Stafford Valentine Redden,2011-06-07 The textbook is intended to provide clear highly readable and easily understood information to the average student It contains sufficient detail to satisfy the requirements of the New Edexcel Syllabus Specifications without the sometimes unnecessary detail which can cloud out underlying issues Advanced level Biology Specifications previously called syllabuses have been revised since 2008 The first complete examination for this specification was held in May 2010 Every attempt has been made to ensure the relevance of the content to the syllabus specification The book is intended to be a useful resource for students preparing for the Unit Four Biology paper for London Edexcel Examination The book lists the syllabus specifications and the relevant notes are incorporated below each specification This ensures that every syllabus specification has been covered Students would be advised to study the content for each specification and then attempt the past paper Questions for each specification This will help to reinforce the concepts and content **A2 Biology with Stafford** MR Stafford Valentine Redden,2012-01-02 The textbook is intended to provide clear highly readable and easily understood information to the average student It contains sufficient detail to satisfy the requirements of the New Edexcel Syllabus Specifications without the sometimes unnecessary detail which can cloud out underlying issues Advanced level Biology Specifications previously called syllabuses have been revised since 2008

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Edexcel Biology A2 Student Unit Guide: Unit 5 New Edition: Energy, Exercise and Coordination ePub Mary

Jones,2013-03-29 Perfect for revision these guides explain the unit requirements summarise the content and include specimen questions with graded answers Each full colour New Edition Student Unit Guide provides ideal preparation for your unit exam Feel confident you understand the unit each guide comprehensively covers the unit content and includes topic summaries knowledge check questions and a reference index Get to grips with the exam requirements the specific skills on which you will be tested are explored and explained Analyse exam style questions graded student responses will help you focus on areas where you can improve your exam technique and performance **Edexcel A2 Biology** Ann Fullick,Sue

Kearsey,2009 The complete package from Edexcel to support the concept led approach for the new GCE Biology specification

Edexcel A2 Biology Student Unit Guide: Unit 5 Energy, Exercise and Coordination Mary Jones,2009-08-28 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 A2 Biology with Stafford MR Stafford Valentine Redden,2010-06-01 The textbook is intended to provide clear highly readable and easily understood information to the average student It contains sufficient detail to satisfy the requirements of the New Edexcel Syllabus Specifications without the sometimes unnecessary detail which can cloud out underlying issues Advanced level Biology Specifications previously called syllabuses have been revised since 2008 The first complete examination for this specification was held in May 2010 Every attempt has been made to ensure the relevance of the content to the syllabus specification The book is intended to be a useful resource for students preparing for the Unit two Biology paper for London Edexcel Examination The book lists the syllabus specifications and the relevant notes are incorporated below each specification This ensures that every syllabus specification has been covered Students would be advised to study the content for each specification and then attempt the past paper Questions for each specification This will help to reinforce the concepts and content *As Biology with Stafford* MR Stafford Valentine Redden,2011-08-02 The textbook is intended to provide clear highly readable and easily understood information to the average student It contains sufficient detail to satisfy the requirements of the New Edexcel Syllabus Specifications without the sometimes unnecessary detail which can cloud out underlying issues Advanced level Biology Specifications previously called syllabuses have been revised since 2008 The first complete examination for this

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A2-Level Biology, Edexcel Ellen Bowness, Simon Little, 2005-12 Providing syllabus specific revision for the A2 level Biology Edexcel course this guide explains every topic with worked examples Ideal for last minute revision or for support during the whole course this book gives coverage for A level in the CGP style

Salters-Nuffield Advanced Biology for Edexcel A2 Biology, 2008

A2 Level Biology Ellen Bowness, Kate Redmond, Richard Parsons, 2005-06 Providing syllabus specific revision for the A2 level Biology Edexcel course this guide explains every topic with worked examples Ideal for last minute revision or for support during the whole course this book gives coverage for A level in the CGP style

Edexcel Biology A2 2011 Lissa Bainbridge-Smith, Kent Pryor, Richard Allan, Tracey Greenwood, 2009-12

Edexcel Biology AS/A2 Student Unit Guide: Units 3&6 Practical Biology and Research and Investigative Skills ePub Ed Lees, 2013-04-26 Written by a senior examiner Ed Lees this Edexcel AS A2 Biology Student Unit Guide is the essential study companion for Units 3 and 6 Practical Biology and Research and Investigative Skills This full colour book includes all you need to know to prepare for your Unit 3 and Unit 6 assessments clear guidance on the range of practical apparatus and techniques that you need to know about and an overview of the scientific method of testing ideas by experimentation examiner s advice throughout so you will know what to expect in the assessments and will be able to demonstrate the skills required sample investigation tasks for extra practice before your assessments

A2 Level Biology Phil Bradfield, John H. Dodds, 2002-01 Written to meet the requirements of the new AS A2 Level Biology specifications these highly illustrated texts provide full coverage of the AQA A specification and Edexcel Option C

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