



**ADVANCED SUBSIDIARY GCE
CHEMISTRY A**
Atoms, Bonds and Groups

F321

Candidates answer on the Question Paper

OCR Supplied Materials:

- Data Sheet for Chemistry A (inserted)

Other Materials Required:

- scientific calculator

**Friday 21 May 2010
Afternoon**

Duration: 1 hour



Candidate
Reference

Candidate
Surname

Centre Number

Candidate Number

INSTRUCTIONS TO CANDIDATES

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do not write in the bar codes.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets () at the end of each question or part question.
-  Where you see this icon you will be awarded marks for the quality of written communication in your answer.
This means for example you should:
 - ensure that text is legible and that spelling, punctuation and grammar are accurate so that meaning is clear;
 - organise information clearly and coherently, using specialist vocabulary when appropriate.
- You may use a scientific calculator.
- A copy of the Data Sheet for Chemistry A is provided as an insert with this question paper.
- You are advised to show **all** the steps in any calculations.
- The total number of marks for this paper is 80.
- This document consists of 18 pages. Any blank pages are indicated.



Ocr F321 Question Papers

Michal Rosen-Zvi



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OCR A Chemistry A2 Student Unit Guide: Unit F325 New Edition:

Equilibria, Energetics and Elements ePub Mike Smith,2013-02-22 Written by a former senior examiner Mike Smith this OCR A A2 Chemistry Student Unit Guide is the essential study companion for Unit F325 Equilibria Energetics and Elements This full colour book includes all you need to know to prepare for your unit exam clear guidance on the content of the unit with topic summaries knowledge check questions and a quick reference index examiner s advice throughout so you will know what to expect in the exam and will be able to demonstrate the skills required exam style questions with graded student responses so you can see clearly what is required to get a better grade

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Unit F325 Equilibria, Energetics and Elements Mike Smith,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

Cambridge International AS and A Level Chemistry Peter Cann,Peter Hughes,2015-03-06 Endorsed by

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OCR Revise Physics David Sang, 2008-11 Engages students and supports them through the transition from GCSE and helps them to understand the underlying principles of science This book features examiner tips on tricky areas and targeted at ensuring understanding with quick check questions on each topic

Ocr Psychology Philip Banyard, Cara Flanagan, 2006-06-29 Endorsed by OCR for use with the OCR AS GCE Psychology specification OCR Psychology AS Core Studies prepares students for all elements of the OCR AS exam All of the twenty core research papers are covered and explanations of why and how the studies were carried out are included The text also explores the conclusions that can be drawn and looks at what happened next Students are encouraged to make links from the historical studies to everyday issues and contemporary events and to raise questions that challenge our understanding of people in the modern world The book mirrors the design of the course both in its exploration of research studies and in its sections on key issues and debates in psychology which can be used for evaluation Material is provided for all three AS papers including the practical component of the course Specifically it covers The core studies an abstract of each plus ample details of aims method results and conclusions Guidance is given on how each study can be evaluated and short answer questions practical activities discussion ideas multiple choice questions and past exam questions are provided The background to each core study information about related research and biographical details of the researcher s provide a context that makes the studies more understandable Key issues 20 issues and debates are discussed in detail to prepare students for the long answer questions A research methods chapter guides students in conducting and reporting the four activities for their practical investigations folder It also provides suggestions for the activities and practice exam questions Exam guidance each chapter ends with a selection of short and long answer exam questions with answers by students and examiner s comments The whole book is presented in magazine style spreads to aid the learning process It is written in a style accessible to all students whilst also providing some challenging material for the more confident student Key features of the book include Starters and Afters to place the study in context Questions and Activities and Debates related to each core study to offer students the opportunity to really engage with the material Evaluation suggestions for each core study Multiple choice questions A bank of past exam questions Key issues covered in depth to promote greater understanding Summaries of core studies in the form of mini mind maps to provide helpful revision cues to candidates Student answers to exam questions with examiner s comments This book will be an invaluable resource for all students and teachers following the OCR AS course OCR Psychology AS Core Studies is

accompanied by a free website of supplementary resource material It contains suggested answers to all exam questions study questions evaluation points and core study questions in the book as well as extra exam and study questions and answers These resources are under development and will be available at the beginning of September 2006 **OCR (A) AS Chemistry** Mike Smith,2008-09-16 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 an outline of the areas and the key terms and concepts students will need to focus on It is designed to help them structure their revision and make them aware of the concepts they need to understand the exam Question and Answers sample questions and answers for each unit exam Examples of students work to demonstrate good practice are featured together with examiner s comments explaining how the marks are achieved **OCR AS Physics** Roger Hackett,2007 Religion and Ethics for OCR Mark Coffey,Dennis Brown,2016-10-24 Religion and Ethics for OCR is an ideal guide for students taking the Religion and Ethics option of either the new AS Level or A Level qualification offered by OCR starting in September 2016 Drawing on insights gained over years of teaching and following the OCR course outlines closely Mark Coffey and Dennis Brown s landmark book includes up to date discussions of key debates in religion and ethics ethical theories set in their historical context discussion of contemporary developments in science technology and society helpful guidance on writing excellent exam answers detailed guidance on OCR s assessment criteria and how best to meet them profiles of leading ethical philosophical and religious thinkers a glossary and helpful chapter summaries discussion questions activity boxes and thought points Religion and Ethics for OCR provides a rigorous and accessible introduction to both historical and contemporary debates in religion and ethics including chapters on euthanasia and on sex and sexuality Written with clarity and attention to detail the book s user friendly style will assist all students to achieve their best This book which covers component 02 of the OCR H173 and H573 specifications should be paired with Philosophy of Religion for OCR by Dennis Brown and Ann Greggs which covers component 01 and Developments in Christian Thought for OCR by Dennis Brown and Ann Greggs which covers component 03 OCR Year 1/AS Mathematics Exam Practice Jan Dangerfield,Rose Jewell,Sue Pope,Andrew Roberts,Nick Geere,2018-03-29 *Further Pure 2 and 3 for OCR* Hugh Neill,Douglas Quadling,2005-05-26 Fully endorsed by OCR and revised to match the 2005 specification this series has been carefully revised by experienced teachers and provides easy to use texts Cambridge Advanced Mathematics for OCR encourages achievement by supporting revision and consolidation through review exercises and mock exam papers written by experienced examiners The books also explore ideas through practical and computer activities **Ethics for OCR Religious Studies** Mark Coffey,Dennis Brown,2015-06-22 Please note

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