



**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



Ocr F321 Question Papers:

OCR A Chemistry AS Student Unit Guide: F321 New Edition Atoms, Bonds and Groups Mike Smith, 2012-08-31 Written by a former senior examiner Mike Smith this OCR A AS Chemistry Student Unit Guide is the essential study companion for Unit F321 Atoms Bonds and Groups 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 **OCR(A) AS**

Chemistry Student Unit Guide: Unit F321 Atoms, Bonds and Groups Mike Smith, 2012-01-13 AS Chemistry Student Unit Guide is the essential study companion for Unit F321 Atoms Bonds and Groups This 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 and exam style questions with graded student responses so you can see clearly what is required to get a better grade **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 *OCR(A) A2 Chemistry Student Unit Guide: 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 Cambridge Assessment

International Education for full syllabus coverage Foster a deeper understanding of theoretical concepts through clear guidance and opportunities for self assessment throughout covers the entire Cambridge International AS A Level Chemistry syllabus 9701 Navigate the different routes through the course with ease with clearly divided sections for AS and A Level Focus learning with learning outcomes clearly defined at the beginning of each section Test knowledge and understanding with past paper and exam style questions Address the Key Concepts in the syllabus which are clearly highlighted throughout the course The Revision and Practice CD included with every Student s Book provides interactive tests summaries of each topic and advice on examination techniques

Revision Cards for As Level Chemistry Richard Foulston,2016-02-19 This is the Paperback Edition our original Printed Revision Cards and a Kindle version are also available Learning the right facts for your exams is key to obtaining top grades and a few reactions or definitions can make the difference between grades in an exam Revision Cards are a great way to ensure that you learn all of the key facts that you need to know and we honestly believe that these Revision Cards are the most concise and precise that you will find These Revision Cards are for the old exams for courses starting in 2014 or earlier and are designed specifically for the OCR A Chemistry AS level They include 16 cards for F321 and 20 cards for F322 These cards cover the key Reactions Definitions Equations and Reaction Mechanisms that you need to know for your exams plus a few other important bits Each Revision Card covers a single topic and gives only the facts that you need to learn off by heart for your exams They have been carefully written to ensure that they do not contain any waffle just the key facts that you need to learn These cards were written by a group of experienced teachers tutors and examiners who have decades of combined teaching experience thousands of hours of tuition experience and have marked thousands of exam papers as examiners team leaders They have painstakingly trawled through module specifications textbooks and exam mark schemes to produce a set of Revision Cards which cover the key facts required for the F321 and F322 exams They focus specifically on areas where students tend to perform badly in exams

OCR (A) AS Chemistry Student Unit Guide New Edition: Unit F322 Chains, Energy and Resources Mike Smith,2012-10-26 Written by a senior examiner Mike Smith this OCR A AS Chemistry Student Unit Guide is the essential study companion for Unit F322 Chains Energy and Resources 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

NEW A-LEVEL CHEMISTRY OCR A REVISION QUESTION CARDS. CGP BOOKS.,2023

Ocr(A) AS Chemistry, Unit F322 Mike Smith,2012-10-01 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 CONTENTS Content Guidance Module 1 Basic concepts and hydrocarbons Module 2 Alcohols halogenoalkanes and analysis Module 3 Enthalpy changes rates and equilibria Module 4 Resources Questions Answers Knowledge check answers Index **OCR Revise Physics** David Sang, 2008-11

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