

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 Forename						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 **60**.
- This document consists of **16** pages. Any blank pages are indicated.



14 F321 Paper

Mike Smith



14 F321 Paper:

Geological Survey Water-supply Paper ,1959 **General Lee's Army** Joseph Glatthaar,2009-03-24 A history of the Confederate troops under Robert E Lee presents portraits of soldiers from all walks of life offers insight into how the Confederacy conducted key operations and reveals how closely the South came to winning the war *Water-supply Paper* ,1945 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 **Index, The Papers of the Continental Congress, 1774-1789** ,1978 *Index, The Papers of the Continental Congress, 1774-1789: East Whiteland - Leacraft, G* ,1978 The Existing Tariff on Imports Into the United States, Etc United States. Congress. Senate. Committee on Finance,1884 *Patents for Inventions. Abridgments of Specifications* Great Britain. Patent Office,1899 **List and Analysis of State Papers, Foreign Series: August 1589-June 1590, edited by R.B. Wernham** Great Britain. Public Record Office,1964 **List and Analysis of State Papers, Foreign Series: Elizabeth I.: July 1590-May 1591** Great Britain. Public Record Office,1964

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