



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.



F321 Papers

N Colangelo



F321 Papers:

My Revision Notes: OCR (A) AS Chemistry Mike Smith, 2012-04-20 Get the best grades with My Revision Notes OCR A AS Chemistry Manage your own revision with step by step support from senior examiner and author Mike Smith Use specific examples and advice to improve your knowledge of chemical applications and processes Get the top marks by applying chemical terms accurately with the help of definitions and key words Improve your exam skills with the help of self testing and exam style questions and answers My Revision Notes will help you prepare for the big day Plan and pace your revision with My Revision Planner Use the concise notes to revise the essential information Use the examiner's tips and summaries to clarify key points Avoid making typical mistakes with expert advice Test yourself with end of topic questions and answers and tick off each topic as you complete it Practise your exam skills on exam questions then check your answers online Get exam ready with last minute quick quizzes at www.therevisionbutton.co.uk/myrevisionnotes Geological Survey Professional Paper, 1975 *Senate documents*, 1884 **Collected Papers** University of Queensland, 1920 **U.S. Geological Survey Professional Paper**, 1972 **Geological Survey Water-supply Paper**, 1959 **Stanley Melbourne Bruce** David Lee, 2010-05-20 Australia's Prime Minister and premier diplomat in the 1930 1940s this new biography presents him as a consistent internationalist and places him in a global context Stanley Melbourne Bruce was at the centre of Imperial politics for more than two decades from the early 1920s until the end of the Second World War This new biography presents Bruce as a consistent internationalist Educated in Melbourne and Cambridge Bruce as a businessman was alive to the importance of international commerce and particularly Anglo Australian trade This lay at the core of his internationalism which took the form in the 1920s of encouraging the political and economic integration of the British Empire Bruce's punitive treatment of militant Australian trade unionists and his upholding of constitutionalism and law and order in the 1920s was part of an effort to defend one form of internationalism commitment to the British Empire against the competing international ideology of communism While continuing to support a unified British Empire acting as a progressive force in world affairs Bruce championed stronger international collaboration through the League of Nations and the United Nations and through cooperation between the Empire and the United States **Index, The Papers of the Continental Congress, 1774-1789: Leacock, W. - Pyttis**, 1978 *Index, The Papers of the Continental Congress, 1774-1789: Aachen - East Twinsey*, 1978 *Index, The Papers of the Continental Congress, 1774-1789*, 1978 *Dictionary Catalog of the University Library, 1919-1962* University of California, Los Angeles. Library, 1963 **Index, The Papers of the Continental Congress, 1774-1789: East Whiteland-Leacock, G**, 1978 NBS Special Publication, 1975 **Geological Survey Professional Paper** Geological Survey (U.S.), 1972 Collected Papers from the University of Queensland, 1920 **Reports of Committees** United States. Congress. Senate, 1884 **Monthly Catalogue, United States Public Documents**, 1975 **The Genesis of the Frontier Thesis** Ray Allen Billington, 1971 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

The Existing Tariff on Imports Into the United States, Etc United States. Congress. Senate. Committee on Finance, 1884

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