



**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.



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Hongru Du

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Table of Contents Ocr F321 Question Papers

1. Understanding the eBook Ocr F321 Question Papers
 - The Rise of Digital Reading Ocr F321 Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr F321 Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ocr F321 Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr F321 Question Papers
 - Personalized Recommendations
 - Ocr F321 Question Papers User Reviews and Ratings
 - Ocr F321 Question Papers and Bestseller Lists
5. Accessing Ocr F321 Question Papers Free and Paid eBooks
 - Ocr F321 Question Papers Public Domain eBooks
 - Ocr F321 Question Papers eBook Subscription Services
 - Ocr F321 Question Papers Budget-Friendly Options

6. Navigating Ocr F321 Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr F321 Question Papers Compatibility with Devices
 - Ocr F321 Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr F321 Question Papers
 - Highlighting and Note-Taking Ocr F321 Question Papers
 - Interactive Elements Ocr F321 Question Papers
8. Staying Engaged with Ocr F321 Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr F321 Question Papers
9. Balancing eBooks and Physical Books Ocr F321 Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr F321 Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ocr F321 Question Papers
 - Setting Reading Goals Ocr F321 Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ocr F321 Question Papers
 - Fact-Checking eBook Content of Ocr F321 Question Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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