

Question	Answer	Marks	Guidance								
1 (a) (i)	<p>Atom(s) of an element</p> <p>AND</p> <p>with different numbers of neutrons (and with different masses) ✓</p>	1	<p>ALLOW for 'atoms of an element':</p> <p>Atoms of the same element</p> <p>OR atoms with the same number of protons</p> <p>OR atoms with the same atomic number</p> <p>IGNORE 'different relative atomic masses'</p> <p>IGNORE different mass number</p> <p>IGNORE same number of electrons</p> <p>DO NOT ALLOW different numbers of electrons</p> <p>DO NOT ALLOW 'atoms of elements' for 'atoms of an element'</p> <p>DO NOT ALLOW 'an element with different numbers of neutrons' (ie atom(s) is essential)</p>								
	<p>(ii)</p> <table border="1" data-bbox="208 611 846 685"> <tr> <td>Protons</td><td>Neutrons</td><td>Electrons</td><td></td></tr> <tr> <td>74</td><td>110</td><td>74</td><td>✓</td></tr> </table>	Protons	Neutrons	Electrons		74	110	74	✓	1	
Protons	Neutrons	Electrons									
74	110	74	✓								
	(iii) ^{12}C OR C-12 OR carbon 12 OR carbon-12 ✓	1	IGNORE $1/12^{\text{th}}$ AND amu								
(b)	<p>(i) (Oxidised):</p> <p>H (oxidation number has increased) from H = 0 to H = +1 ✓</p> <p>(Reduced):</p> <p>W (oxidation number has decreased) from W = +6 to W = 0 ✓</p>	2	<p>ALLOW 6+ OR 6 OR 1+ OR 1</p> <p>ALLOW one mark for correct oxidation number changes</p> <p>H = 0 to H = +1 AND W = +6 to W = 0</p> <p>ALLOW oxidation states written above the equation if not seen in the text BUT IGNORE oxidation states written above the equation if seen in the text</p> <p>ALLOW for one mark: (Oxidised) H has increased by 1 AND (Reduced) W has decreased by 6</p> <p>IGNORE WO_3 is reduced</p> <p>IGNORE references to electron loss / gain if correct</p> <p>DO NOT ALLOW incorrect references to electron loss / gain</p> <p>DO NOT ALLOW 'H oxidised and W reduced' without reference to oxidation number changes</p>								

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Ying Liu

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1. Understanding the eBook Ocr F321 Jan 2013 Question Paper
 - The Rise of Digital Reading Ocr F321 Jan 2013 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr F321 Jan 2013 Question Paper
 - 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 Jan 2013 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr F321 Jan 2013 Question Paper
 - Personalized Recommendations
 - Ocr F321 Jan 2013 Question Paper User Reviews and Ratings
 - Ocr F321 Jan 2013 Question Paper and Bestseller Lists
5. Accessing Ocr F321 Jan 2013 Question Paper Free and Paid eBooks
 - Ocr F321 Jan 2013 Question Paper Public Domain eBooks
 - Ocr F321 Jan 2013 Question Paper eBook Subscription Services
 - Ocr F321 Jan 2013 Question Paper Budget-Friendly Options

6. Navigating Ocr F321 Jan 2013 Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr F321 Jan 2013 Question Paper Compatibility with Devices
 - Ocr F321 Jan 2013 Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr F321 Jan 2013 Question Paper
 - Highlighting and Note-Taking Ocr F321 Jan 2013 Question Paper
 - Interactive Elements Ocr F321 Jan 2013 Question Paper
8. Staying Engaged with Ocr F321 Jan 2013 Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr F321 Jan 2013 Question Paper
9. Balancing eBooks and Physical Books Ocr F321 Jan 2013 Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr F321 Jan 2013 Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ocr F321 Jan 2013 Question Paper
 - Setting Reading Goals Ocr F321 Jan 2013 Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ocr F321 Jan 2013 Question Paper
 - Fact-Checking eBook Content of Ocr F321 Jan 2013 Question Paper
 - 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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