

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)</p> <p>(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>								

Ocr F321 Jan 2013 Question Paper

Mike Smith



Ocr F321 Jan 2013 Question Paper:

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

The Top Books of the Year Ocr F321 Jan 2013 Question Paper The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. Ocr F321 Jan 2013 Question Paper : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Ocr F321 Jan 2013 Question Paper : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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