

| Question  | Answer                                                                                                                                                                                            | Marks     | Guidance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |  |    |     |    |   |   |  |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|----|-----|----|---|---|--|
| 1 (a) (i) | <p>Atom(s) of an element</p> <p><b>AND</b></p> <p>with different numbers of neutrons (and with different masses) ✓</p>                                                                            | 1         | <p><b>ALLOW</b> 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><b>IGNORE</b> 'different relative atomic masses'</p> <p><b>IGNORE</b> different mass number</p> <p><b>IGNORE</b> same number of electrons</p> <p><b>DO NOT ALLOW</b> different numbers of electrons</p> <p><b>DO NOT ALLOW</b> 'atoms of elements' for 'atoms of an element'</p> <p><b>DO NOT ALLOW</b> '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) $^{12}\text{C}$ OR C-12 OR carbon 12 OR carbon-12 ✓                                                                                                                                         | 1         | <b>IGNORE</b> $1/12^{\text{th}}$ <b>AND</b> 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><b>ALLOW</b> 6+ OR 6 OR 1+ OR 1</p> <p><b>ALLOW</b> one mark for correct oxidation number changes</p> <p>H = 0 to H = +1 <b>AND</b> W = +6 to W = 0</p> <p><b>ALLOW</b> oxidation states written above the equation if not seen in the text <b>BUT IGNORE</b> oxidation states written above the equation if seen in the text</p> <p><b>ALLOW</b> for one mark: (Oxidised) H has increased by 1 <b>AND</b> (Reduced) W has decreased by 6</p> <p><b>IGNORE</b> <math>\text{WO}_3</math> is reduced</p> <p><b>IGNORE</b> references to electron loss / gain if correct</p> <p><b>DO NOT ALLOW</b> incorrect references to electron loss / gain</p> <p><b>DO NOT ALLOW</b> '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

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