

Question	Answer	Marks	Guidance								
1 (a) (i)	Atom(s) of an element  <b>AND</b>  with different numbers of neutrons (and with different masses) ✓	1	<b>ALLOW</b> for 'atoms of an element': Atoms of the same element OR atoms with the same number of protons OR atoms with the same atomic number  <b>IGNORE</b> 'different relative atomic masses' <b>IGNORE</b> different mass number <b>IGNORE</b> same number of electrons <b>DO NOT ALLOW</b> different numbers of electrons <b>DO NOT ALLOW</b> 'atoms of elements' for 'atoms of an element' <b>DO NOT ALLOW</b> 'an element with different numbers of neutrons' (ie atom(s) is essential)								
	(ii) <table border="1" data-bbox="208 611 846 686"> <thead> <tr> <th>Protons</th> <th>Neutrons</th> <th>Electrons</th> <th></th> </tr> </thead> <tbody> <tr> <td>74</td> <td>110</td> <td>74</td> <td>✓</td> </tr> </tbody> </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) (i)	(Oxidised): H (oxidation number has increased) from H = 0 to H = +1 ✓  (Reduced): W (oxidation number has decreased) from W = +6 to W = 0 ✓	2	<b>ALLOW</b> 6+ OR 6 OR 1+ OR 1 <b>ALLOW</b> one mark for correct oxidation number changes H = 0 to H = +1 <b>AND</b> W = +6 to W = 0 <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 <b>ALLOW</b> for one mark: (Oxidised) H has increased by 1 <b>AND</b> (Reduced) W has decreased by 6  <b>IGNORE</b> $\text{W}\text{O}_2$ is reduced <b>IGNORE</b> references to electron loss / gain if correct  <b>DO NOT ALLOW</b> incorrect references to electron loss / gain <b>DO NOT ALLOW</b> 'H oxidised and W reduced' without reference to oxidation number changes								

# Ocr F321 Jan 2013 Question Paper

**Mike Smith**



**Ocr F321 Jan 2013 Question Paper:**

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