

Question	Answer	Marks	Guidance								
1 (a) (i)	Atom(s) of an element AND with different numbers of neutrons (and with different masses) ✓	1	ALLOW 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 IGNORE 'different relative atomic masses' IGNORE different mass number IGNORE same number of electrons DO NOT ALLOW different numbers of electrons DO NOT ALLOW 'atoms of elements' for 'atoms of an element' DO NOT ALLOW 'an element with different numbers of neutrons' (ie atom(s) is essential)								
	(ii) <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)	(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	ALLOW 6+ OR 6 OR 1+ OR 1 ALLOW one mark for correct oxidation number changes H = 0 to H = +1 AND W = +6 to W = 0 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 ALLOW for one mark: (Oxidised) H has increased by 1 AND (Reduced) W has decreased by 6 IGNORE WO_3 is reduced IGNORE references to electron loss / gain if correct DO NOT ALLOW incorrect references to electron loss / gain DO NOT ALLOW 'H oxidised and W reduced' without reference to oxidation number changes								

Ocr F321 Jan 2013 Question Paper

Yan Bai



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