

ATOMS, ELEMENTS & COMPOUNDS 3

MARK SCHEME

Q1.

Question	Answer	Extra information	Marks
(a)(i)	made up of one sort of atom	accept it is in the periodic table or has its own symbol	1
(ii)	nitrogen / N / N ₂ or oxygen / O / O ₂	do not accept argon or helium do not accept oxide	1
(b)(i)	compound carbon		1 1
(ii)	bond		1
Total marks			5

Q2.

Question	Answer	Extra information	Marks
(i)	1 3		1 1
(ii)	nucleus electron		1 1
Total marks			4

Q3.

Question	Answer	Extra information	Marks
(a)	NN linked to element OCO linked to compound		1 1
(b)	(reacts with) oxygen to produce water	must be names accept hydrogen oxide allow steam	1 1
Total marks			4

Q4.

Question	Answer	Extra information	Marks
(a)(i)	protons	allow "protons or electrons", but do not allow "protons and electrons"	1
(ii)	protons plus/and neutrons		1
(b)	(because the relative electrical	allow electrons are negative and	1

	charges are) –(1) for an electron and +(1) for a proton and the number of electrons is equal to the number of protons	protons are positive if no other mark awarded, allow 1 mark for the charges cancel out	1
Total marks			4

Q5.

Question	Answer	Extra information	Marks
(i)	ions		1
(ii)	molecules		1
Total marks			2

Q6.

Question	Answer	Extra information	Marks
	two sodium atoms (react)		1
	two (bonded) chlorine atoms (react)	allow one chlorine molecule (reacts)	1
	two sodium ions and two chloride ions (are produced)	allow two molecules of sodium chloride (are produced) or two sodium chloride particles (are produced)	1
Total marks			3