

METALS & NON-METALS 6

MARK SCHEME

Q1.

Question	Answer	Extra information	Marks
(i)	reduction	accept redox / smelting	1
(ii)	3 4 3		1
Total marks			2

Q2.

Question	Answer	Extra information	Marks
A	2		
B	3		
C	1		
D	4		
Total marks			4

Q3.

Question	Answer	Extra information	Marks
(a)	2		1
(b)	4		1
(c)	4		1
(d)	3		1
Total marks			4

Q4.

Question	Answer	Extra information	Marks
(a)	Aluminium has a low density Aluminium is resistant to corrosion		1 1
(b)(i)	(an alloy) is a mixture of metals	accept (an alloy) can be a metal mixed with another metal or iron mixed with carbon / a non-metal	1
(ii)	pure metals are soft or alloys are hard	allow weak allow strong / keep their shape ignore rust / corrosion	1
Total marks			4

Q5.

Question	Answer	Extra information	Marks
	tungsten		1
	has the high(est) melting point	accept that metals other than tungsten are likely to melt	1
Total marks			2

Q6.

Question	Answer	Extra information	Marks
	mixture		1
	metal		1
	structure		1
	smart		1
Total marks			4

Q7.

Question	Answer	Extra information	Marks
(a)(i)	copper / Cu		1
(ii)	50(p)		1
(iii)	25		1
(iv)	tin		1
(b)(i)	any one from: <ul style="list-style-type: none"> • high cost of copper • less copper available or (copper ores exhausted / only low-grade ores available) • high demand for copper • high percentage (%) of copper in the coin • inflation (of cost) 	allow metal is expensive allow copper is non-renewable	1
(ii)	any one from: <ul style="list-style-type: none"> • stronger / harder • cost of copper or copper is more expensive to extract or steel is cheap • less copper available or (copper ores exhausted / only low-grade ores available) • high demand for copper • less copper is needed 	ignore rust allow cheaper (to make)	1
Total marks			6

Q8.

Question	Answer	Extra information	Marks
	The ore is not pure or contains impurities or the ore does not contain 100% of the metal compound	allow to concentrate the metal or metal compound	1
	rock / other compounds need to be removed / separated		1
Total marks			2