Question number	Answer	Notes	Marks
1 a i	amount (in moles)	Accept mass/weight	1
	state of (sub)division / (total) surface area / particle size	OWTTE Accept temperature in place of either of above Ignore references to water or acid	1
ii	cross in box **C** (metal T)		1
iii	cross in box **B** (hydrogen)		1
b	solution of barium chloride		1
	white precipitate		1
c	cross in box **C** (potassium)		1

(Total for Question 1 = 7 marks)

Question number	Answer	Notes	Marks
2 a	(it/iron is) less reactive (than aluminium)	Accept aluminium is more reactive (than iron) Reject references to ions and oxides	1
b	aluminium replaces iron (from a compound)	OWTTE, eg takes the place of Accept aluminium displaces iron from iron oxide/from its oxide/from a compound	1
c	gain/addition of oxygen loss of (three) electron(s) increase in oxidation number/state	Any two for 1 mark each Accept oxygen atom/molecule Accept combines with oxygen / forms aluminium oxide Accept actual oxidation numbers if correct (0 to +3)	2
d	burning magnesium / magnesium reacting with <u>air/oxygen</u>		1

(Total for Question 2 = 5 marks)