Marking Scheme

1.

Que:	stion							
FT	HT	Sub-	sectio	n Mark	Answer	Accept	Neutral answer	Do not accept
4		(a)		1	magnesium sulfate + copper	magnesium sulfate solution / copper solid / copper metal		·
		(b)		1	displacement			
		(c)		2	equal to 80.6 (1) (in a chemical reaction) atoms are not created or destroyed / (in a chemical reaction) atoms are re-arranged / nothing has entered / left the beaker (1)		'it is a sealed	
					[Marks linked (unless no box ticked) i.e. second mark cannot be awarded if first is not]		container'	
		(d)		1	sodium magnesium copper	Na Mg Cu		

2.

Quest									
Numb	_					r			
FT	HT	Sul			Mark	Answer	Accept	Neutral answer	Do not accept
	7	(a)			2	reaction takes place since iron is higher in			
						the series / more reactive than copper (1)			
						brown solid formed / solution becomes			
						colourless / decolourises (1)			
		(b)			2	reaction takes place since magnesium is			
		(-)			_	higher in the series than hydrogen (1)			
						effervescence / bubbling /	magnesium disappears		
						temperature rise / exothermic (1)	220 MARCON		
		()			2		1'-1		
		(c)			2	no reaction takes place (1)	no displacement		
						aluminium is higher in the series / more			
						reactive than carbon (1)			
						Teactive than carbon (1)			

3.

	stion								
	nber					•			
FT	HT	Sub-	-sect	ion		k Answer Accept		Neutral answer	Do not accept
8	3	(a)	(a)		3	copper chloride (1)	CuCl ₂		
						carbon dioxide (1)	CO ₂		
						sodium hydroxide (1)	NaOH		
		(b)			1	2			

4.

Num	ber								
FT	HT	Sub-section			Mark	Answer	Accept	Neutral answer	Do not accept
8 2		(a)	(i)		1	battery acid			
			(ii)		1	blood			
			(iii)		1	pure water			
		(b)			3	A copper carbonate (1) B copper oxide (1)	CuCO ₃ CuO		
						C sodium hydroxide (1)	NaOH		

5.

Question Number									
FT	HT	Sub-section		ub-section Mar		Answer	Accept	Neutral answer	Do not accept
4		(a)	(i)		1	lemon juice			
			(ii)		1	saliva			
		(b)	(i)		2	magnesium chloride (1) water (1)	formulae		
			(ii)		2	carbon dioxide (1) gas must be correct to award test mark turns limewater milky (1)			