Question	Marking Guidance	Mark	Comments
4(a)	HCI 1.0 mol dm ⁻³	1	Allow H ₂ SO ₄ 0.5 mol dm ⁻³
			Allow HNO ₃ 1.0 mol dm ⁻³
			Allow name or formula
			Concentration can be given after "conditions"
	(Hydrogen at) 100kPa / 1 bar	1	
	298 K	1	
4(b)	Pt / Platinum	1	Mark on if no answer for M1
			If wrong answer for M1, only mark on if electrode is Au, Ag, Pb or Ti
	Inert / unreactive / does not create a potential difference	1	
	Conducts electricity / allows electron flow / conducts / conductor	1	
4(c)	KCI	1	Allow NaCl, KNO ₃ , Na ₂ SO ₄ etc NOT NH ₄ Cl
	Does not react with either electrode / solution in electrode	1	Allow unreactive / inert
	Ions can move	1	Allow conducts electricity / electrical connection / carries charge
			Do not allow just connects / completes the circuit
			Do not allow conducts / carries electrons
			Mark these independently

4(d)	Pt H ₂ H ⁺ Fe ³⁺ ,Fe ²⁺ Pt	1	Ignore state symbols Order must be correct must be correct but allow instead of , separating Fe ³⁺ from Fe ²⁺ Allow , instead of separating H ₂ and H ⁺
4(e)(i)	$2Fe^{3+} + H_2 \rightarrow 2Fe^{2+} + 2H^+$	1	Allow multiples
4(e)(ii)	The Fe ³⁺ ions would be used up / reaction completed	1	Answer must relate to reactants in 4(e)(i) equation if given Allow reactant / reactants used up Do not allow concentration of Fe ³⁺ decreases Allow concentration of Fe ³⁺ falls to zero