Q	Part	Sub Part	Marking Guidance	Mark	Comments
3	(a)		Same phase/state	1	
3	(b)		Because only exist in one oxidation state	1	Allow do not have variable oxidation states
3	(c)		$2I^{-} + S_2O_8^{2-} \rightarrow I_2 + 2SO_4^{2-}$	1	Ignore state symbols Allow multiples
3	(d)		Both (ions)have a negative charge	1	Or both have the same charge Or (ions) repel each other Do not allow both molecules have the same charge (contradiction)
3	(e)		$2Fe^{2+} + S_2O_8^{2-} \rightarrow 2Fe^{3+} + 2SO_4^{2-}$	1	
			$2Fe^{3+} + 2I^{-} \rightarrow 2Fe^{2+} + I_{2}$	1	Equations can be in any order
			Positive and negative (ions)/oppositely charged (ions)	1	Mark independently
3	(f)		Equations 1 and 2 can occur in any order	1	Allow idea of Fe ³⁺ converted to Fe ²⁺ then Fe ²⁺ converted back to Fe ³⁺