Question	Marking Guidance	Mark	Comments
3(a)(i)	Ionic lattice / solid / giant ionic	1	CE = 0/2 if molecules / IMFs / atoms / metallic
	Strong (electrostatic) forces/attraction between ions	1	Allow strong ionic bonds for M2 only
			Allow lot of energy to break ionic bonds
3(a)(ii)	Molecular/molecules	1	
	Weak dipole-dipole and/or van der Waals forces <u>between</u> <u>molecules</u>	1	QoL
			Type of force must be mentioned
3(b)	P ₄ O ₁₀ bigger molecule/has larger surface area than SO ₂	1	Allow M_r of P ₄ O ₁₀ greater than for SO ₂
			If P_4O_{10} macromolecule/ionic, $CE = 0/2$
	van der Waals forces <u>between molecules</u> stronger		Allow stronger IMF
		1	
3(c)	$Na_2O + H_2O \rightarrow 2Na^+ + 2OH^-$	1	Allow 2NaOH
	14	1	Allow 12-14
	$P_4O_{10} + 6H_2O \rightarrow 4H_3PO_4$	1	Allow ions
	0	1	Allow -1 to +2
3(d)	$6Na_2O + P_4O_{10} \rightarrow 4Na_3PO_4$	1	Allow ionic
			Allow correct formula of product with atoms in any order