| C | Question | | Answer | Marks | Guidance |
|---|----------|------|---|-------|---|
| 1 | (a) | | (The enthalpy change that accompanies) the formation of one mole of a(n ionic) compound ✓ from its gaseous ions (under standard conditions) ✓ | 2 | IGNORE 'energy needed' OR 'energy required' ALLOW as alternative for compound: lattice, crystal, substance, solid Note: 1st mark requires 1 mole 2nd mark requires gaseous ions IF candidate response has '1 mole of gaseous ions', award 2nd mark but NOT 1st mark |
| | (b) | (0) | Ca ^{2*} (g) + O ²⁻ (g) Step G | 2 | Correct species AND state symbols required for both marks 2e* required for left-hand response ALLOW e for e* Mark each marking point independently |
| | | (ii) | (enthalpy change of) formation (of calcium oxide) ✓ (enthalpy change of) atomisation of oxygen ✓ Second electron affinity (of oxygen) ✓ | 3 | calcium oxide not required for this mark DO NOT ALLOW 'lattice formation' (confusion with LE) atomisation AND oxygen/Oy/Y/Oy/O both required (atomisation of calcium is also in cycle) IGNORE oxygen or oxygen species, e.g. O' DO NOT ALLOW calcium |

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