Question number	Answer	Additional guidance	Marks
2(a)	D		**1**
2(b)	B		**1**
2(c)	D		**1**
2(d)	• order: GZ > DX > EY (1) Justification: • the ions in GZ have higher charges (than those in both EY and DX) (1) • the ions in DX are smaller than those in EY (1)		**3**
2(e)	• construction of balanced cycle (1) • substitution and evaluation of 2^{nd} IE (1)	Example calculation $-2258 = -590 - 2^{nd}\text{ IE} + 2(349) - 178 - 2(122) - 796$ hence 2^{nd} IE = (+) 1148 (kJ mol^{-1}) correct answer, no working scores 2 marks	**2**

(Total for Question 2 = 8 marks)