

Question number	Answer	Notes	Marks
2 (a)	substitution OR rearrangement; evaluation; e.g. $1.25 \times 10^{18} = 1 / T$ OR $T = 1/f$ (T =) 8.00×10^{-19} (s)	-1 for POT error allow 8×10^{-19} (s)	2
(b)	use of $v = f \times \lambda$; substitution OR rearrangement; evaluation; e.g. $v = f \times \lambda$ $3.00 \times 10^8 = 1.25 \times 10^{18} \times \lambda$ OR $\lambda = v / f$ (λ =) 2.40×10^{-10} (m)	seen as a formula or implied by working allow v, c, s for speed allow λ for wavelength -1 for POT error allow 2.4×10^{-10} (m)	3

Total for Question 2 = 5 marks