CHAPTER 7 PRACTICE TEST: ATOMIC STRUCTURE & PERIODIC TRENDS- KEY

1)When a solution of	sodium chloride	is vaporized in a flan	ne, the color of the t	lame is:	
A) Blue B) Yel	low C) Green	n D) Violet	E) White		
2) Electromagnetic ra-	distion travels th	ewigh vacuum at a sp	eed of	m/s	
A) 186,000	C) 3.00×10*	E) It depend	de on		
B) 125	D) 10.000	λ	33 471		
B) 125	D) 10,000				
3) The wavelength of	light that has a f	requency of 1.20×10		m.	
A) 25.0	B) 2.50×10 ⁻⁵	C) 0.0400	E) 2.5		
	.,	D) 12.0			
GIVEN: $\nu = 1.20 \times 10^{-2}$ CONNECTION: $c = \lambda$ SUBSTITUTE & SOLVE: $\lambda = 3.00 \times 10^{8} \text{ m} \cdot \text{s}^{-1}$ $1.20 \times 10^{13} \text{ s}^{-4}$	ξν . λ =c/ν	JNKNOWN; λ			
$\lambda = 2.50 \times 10^{-5} \mathrm{m}$					
4) Ham radio operator	s often broadcas	t on the 6-meter band	I. The frequency of	this EM radiation is	MHz.
A) 500	B) 200	C) 50	D) 20	E) :	0.5
GIVEN: $\lambda = 6 \text{ m}$	UNKNO	WN: v (Must conver		3.55	
CONNECTION: e = /					
SUBSTITUTE & SOLVE					
ν = 3.00 x 10 ⁸ m • s					
6 m	_				
O III					
$\lambda = 0.5 \times 10^8 \text{Hz}$	10° 14a	50 MHz			
5) The energy of a pho	oton of light is _	proportion	nal to its frequency	and pro	portional to
its wavelength.			_		
A) directly, directly		C) inversely, directl	The state of the s	E) indirectly, not	
B) inversely, inversely	Y.	D) directly, inverse	ely		
6) The energy of a ph					
A) 1.51×10 ⁻¹⁷	B) 4.42×10 ⁻²¹	C) 1.99×10	D) 2.7	2×10 ⁻⁵⁰ E)	1.62×10 ⁻¹⁷
7) The wavelength of	a photon that ha			m.	
A) 3.79×10 ⁻⁷	B) 2.64×10°	C) 2.38×10	D) 4.2	1×10 ⁻²⁴ E)	3.79×10^{7}
8) A mole of red phot	ons of waveleng	th 725 nm has	kJ of energy.		
A) 2.74×10 ⁻¹⁹	B) 4.56×10-4	C) 6.05×10	D) 165	E) 2	227
	and annual and	W. F. W. W. W. B. U.			
GIVENS: $\lambda = 725$ nm	(majet consider to	na before using form	relact.		
$\lambda = 725 \text{nm} \text{ x}$			the same of		
	$\frac{1m}{0^9} = 7.23 \times \frac{1}{10^9}$	10 III			

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Neil D. Jespersen, Pamela Kerrigan

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