

A) 0.060m B) 0.050m human eye. The energy of one photon of this lig	15. What frequ	5. What is the wavelength of microwaves with a frequency of 3.0 x 10 ⁹ Hz?			19. Electromagnetic radiation with a wavelength of 525 nm (5.25 x 10 ⁻⁷ m) appears as green light to the	
C) 0.10m D) 0.20m 16. Yellow-green light has wavelength of 5.6 x 10 ⁻⁷ meters. What is its frequency? A) 5.4 x 10 ⁶ Hz B) 1.8 x 10 ¹⁴ Hz C) 1.8 x 10 ⁶ Hz D) 5.4 x 10 ¹⁴ Hz 17. Calculate the frequency of visible light having a 17. Calculate the frequency of visible light having a	 A) 0 C) 0 16. Yello meto A) 5 C) 1 17. Calc 	 A) 0.060m C) 0.10m J 5. Yellow-green light has we meters. What is its frequency A) 5.4 x 10⁶ Hz C) 1.8 x 10⁶ Hz J 7. Calculate the frequency 	 B) 0.050m D) 0.20m wavelength of 5.6 x 10⁻⁷ quency? B) 1.8 x 10¹⁴ Hz D) 5.4 x 10¹⁴ Hz y of visible light having a 	$\begin{array}{c} _ J. \\ A) \ 1.04 \times 10^{-31} \text{ J} \\ B) \ 3.78 \times 10^{-19} \text{J} \\ C) \ 2.64 \times 10^{18} \text{J} \\ D) \ 3.78 \times 10^{-28} \text{J} \\ E) \ 1.04 \times 10^{-22} \text{J} \\ \end{array}$ 20. What is the energy per mole of photons associated with visible light of wavelength 486.1 nm (4.861 x 10^{-7} m)?		
wavelength of 486.1 nm (4.861 x 10^{-7} m). A) 2.06×10^{14} Hz B) 2.06×10^{6} Hz C) 6.17×10^{14} Hz D) 1.20×10^{-15} Hz E) 4.86×10^{-7} Hz	wave A) 2 C) 6 E) 4	wavelength $(A) 2.06 \times 10^{\circ}$ C) $6.17 \times 10^{\circ}$ E) $4.86 \times 10^{\circ}$	of 486.1 m) ¹⁴ Hz) ¹⁴ Hz) ⁻⁷ Hz	n (4.861 x 10 ⁻⁷ m). B) 2.06 × 10 ⁶ Hz D) 1.20 × 10 ⁻¹⁵ Hz	 A) 6.46 × 10⁻¹⁶ J C) 2.46 × 10⁻⁴ J E) 246 kJ 	 B) 6.46 × 10⁻²⁵ J D) 12.4 kJ
18. What is the wavelength of radiation that has a frequency of $2.10 \times 10^{14} \text{s}^{-1}$? A) $6.30 \times 10^{22} \text{m}$ B) $7.00 \times 10^2 \text{nm}$ C) $7.00 \times 10^5 \text{m}$ D) $1.43 \times 10^{-6} \text{m}$ E) $3.00 \times 10^8 \text{m}$	 18. What freque A) 6 C) 7 E) 3 	What is the v frequency of A) 6.30 × 10 C) 7.00 × 10 E) 3.00 × 10	wavelength $^{2}.10 \times 10$ 22 m 5 m 8 m	h of radiation that has a 14 s ⁻¹ ? B) 7.00 × 10 ² nm D) 1.43 × 10 ⁻⁶ m		