

# 7&8 • Atomic Structure & Periodicity

## PRACTICE TEST

$$Rhc = A$$

$$A = 2.18 \times 10^{-18} \text{ J}$$

$$h = 6.626 \times 10^{-34} \text{ J}\cdot\text{s}$$

$$R = 1.097 \times 10^7 \text{ m}^{-1}$$

$$c = 3.00 \times 10^8 \text{ m}\cdot\text{s}^{-1}$$

$$\text{mass of an electron} = 9.11 \times 10^{-31} \text{ kg}$$

1. What wavelength corresponds to a frequency of  $8.22 \times 10^9 \text{ Hz}$ ?

$$\lambda = \frac{c}{\nu}$$

- a) 0.307 m                      d) 0.110 m

- b) 0.0365 m                      c) 27.4 m

- c) 0.122 m                       $\frac{3.00 \times 10^8 \text{ m}\cdot\text{s}^{-1}}{8.22 \times 10^9 \text{ s}^{-1}} = 0.036496 \text{ m}$

2. A radio station transmits at 110 MHz ( $110 \times 10^6 \text{ Hz}$ ). What wavelength is this radio wave?

- a)  $3.65 \times 10^{-5} \text{ m}$                       c)  $3.81 \times 10^{-5} \text{ m}$

- b) 3.30 m                      d) 2.73 m

$$\lambda = \frac{c}{\nu} = \frac{3.00 \times 10^8 \text{ m}\cdot\text{s}^{-1}}{110 \times 10^6 \text{ s}^{-1}} = 2.73 \text{ m}$$

3. Which one of the following is NOT a proper unit for frequency?

- a) Hz

- b)  $\text{s}^{-1}$

- c)  $\text{m}\cdot\text{s}^{-1}$

- d)  $\frac{1}{\text{sec}}$

velocity

4. Calculate the wavelength of the fourth line in the Balmer series (the visible series) of the hydrogen spectrum.

$$n=6 \rightarrow n=2$$

- a) 0.12334 m                      d)  $4.1029 \times 10^{-7} \text{ m}$

- b) 24.373 m                      e) 36.559 m

- c)  $2.7353 \times 10^{-7} \text{ m}$

$$E_6 = \frac{-2.18 \times 10^{-18} \text{ J}}{36} - E_2 = \frac{-2.18 \times 10^{-18} \text{ J}}{4}$$

$$\Delta E = 4.84 \times 10^{-19} \text{ J}$$

$$E = \frac{hc}{\lambda} \quad \lambda = \frac{hc}{E}$$

$$= 4.1 \times 10^{-7} \text{ m}$$

5. What is the relationship between the energy of a photon of light and its frequency?

- a)  $E = \nu$

- d)  $E = \frac{1}{h\nu}$

- b)  $E = \frac{h}{\nu}$

- e)  $E = \frac{\nu}{h}$

- c)  $E = h\nu$

6. What is the energy needed to raise an electron in the hydrogen atom from the second energy level to the third energy level?

$$\Delta E = E_3 - E_2$$

- a)  $1.52 \times 10^{-19} \text{ J}$                       d)  $4.48 \times 10^{-19} \text{ J}$

- b)  $3.63 \times 10^{-19} \text{ J}$                       c)  $3.03 \times 10^{-19} \text{ J}$

$$c) \frac{2.18 \times 10^{-18} \text{ J}}{4} - \frac{2.18 \times 10^{-18} \text{ J}}{9} = 3.03 \times 10^{-19} \text{ J}$$

7. What is the de Broglie wavelength of an electron moving at 80.0% the speed of light.

- a)  $3.03 \times 10^{-12} \text{ m}$                       c)  $3.30 \times 10^{-11} \text{ m}$

- b)  $2.42 \times 10^{-12} \text{ m}$                       d)  $1.59 \times 10^{-25} \text{ m}$

$$\lambda = \frac{h}{mv} = \frac{6.626 \times 10^{-34} \text{ J}\cdot\text{s}}{9.11 \times 10^{-31} \text{ kg} \cdot 0.8 \cdot 3.00 \times 10^8 \text{ m}\cdot\text{s}^{-1}} = 3.03 \times 10^{-12} \text{ m}$$

8. What resultant is expected from the interference of the two waves shown below?



- a)

- c)

- b)

- d)

9. Which quantum number determines the subshell occupied by an electron (s, p, d, f, etc.)?

- a)  $n$

- c)  $m_l$

- b)  $\ell$

- d)  $m_s$

# Electron Configuration Chem Worksheet 5 6 Answer Key

**Frank Schaffer Publications,Joan  
DiStasio**



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