5

ELECTRONS IN ATOMS

Practice Problems

In your notebook, solve the following problems.

SECTION 5.1 MODELS OF THE ATOM

- 1. How many sublevets are in the following principal energy levets?
 - $m_e \sim m 1$

 $\mathbf{c}_{2} \cdot \mathbf{z}_{1} = 0$

 \mathbf{b}_{i} at i=2

- $\mathbf{d}_{i} \cdot \mathbf{n}_{i} = 4$
- ----
- 2. How many orbitals are in the following sublevels?
 - a. In subtevel
 b. So subtevel

- d. 4/ sublevet
- es. 7's subderved

e. did subtlevel.

f. Bay subtlevel

- g. fifth principal energy level
- h. 6d sublevel

 a_{r} , $a_{r} = 5$

L = 6

- What are the types of sublevels and number of orbitals in the following exemp levels?
 - me or so a

 $c_{i} \cdot m = 3$

Section 1995

b. n = 2

 $\mathbf{d}_{i}\cdot m=4$

SECTION 5.2 ELECTRON ARRANGEMENT IN ATOMS

- 1. Write a complete electron configuration of each atom.
 - a. byrdrogeni

d. barium

g. krypton.

Do. Vonctood burns

ec. becoming

the appearaic

c. magazinesium

L staffbar

L sadon

SECTION 5.3 PHYSICS AND THE QUANTUM MECHANICAL MODEL

- What is the wavelength of the radiation whose frequency is 5.00 × 10⁴⁵ s⁻¹? In what region of the electromagnetic spectrum is this radiation?
- An inexpensive laser that is available to the public emits light that has a wavelength of 670 nm. What are the color and frequency of the radiation?
- What is the energy of a photon whose frequency is 2.22 × 10¹⁴ s⁻¹?
- What is the frequency of a photon whose energy is 6.00 × 10⁻¹⁵ F
- Arrange the following types of electromagnetic radiation in order of increasing frequency.
 - a. indrared

e. veisitate Lietar

e. microsupves-

b. cosmic rays

d. madio wayses

- ff. admirable to the same of t
- Suppose that your favorite AM radio station broadcasts at a frequency of 1900 kHz. What is the wavelength in meters of the radiation from the station?

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M Mark

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