1.	For each	of the follow	ving sets of	sublevels,	determine	which has	the lowest
	energy, as	nd which ha	s the highe	est energy.			

(a) 2s, 3s, 4s (b) 4f, 4p, 4d (c) 4d, 4f, 3d (d) 6s, 3d, 5f Ex for (a) Lowest 2s, highest 4s

Explain what 6s² means.

3. What is the maximum number of electrons that can be found in an s - sublevel? p - sublevel? d - sublevel? f - sublevel?

4. Indicate which of these (there may be more than one) orbital designations is incorrect:

(a) 4s

(b) 3f

(c) 2d

(d) 3d

Draw energy level diagrams for

(a) sodium

(b) silicon

(c) beryllium

(d) cobalt

6. How many unpaired electrons are there in each of the atoms in question 5?

Give the electron configuration for:

(a) lithium

(b) oxygen (c) selenium

(d) iodine

(e) silver (f) arsenic (g) indium

(h) potassium

Give the name and symbol for the atom whose electron configuration corresponds to each of the following electron configurations.

a) 1s²2s²2p⁶3s²3p⁵

b) 1s²2s²2p⁶3s²3p⁶ 4s²3d¹⁰4p³

c) 1s²2s²2p⁶3s²3p⁶ 4s²3d¹⁰4p⁶5s²4d⁶

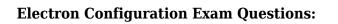
d) 1s²2s²2p⁶3s²3p²

e) 1s²2s²2p⁶3s²3p⁶ 4s²3d¹⁰4p⁶5s¹

9. Write the shorthand notation for the above electron configurations.

Electron Configuration Exam Questions

Jin-Ying Zhang



Electron Configuration Exam Questions Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Electron Configuration Exam Questions**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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