

CHEMISTRY 3A -- WORKSHEET 4

CHAPTER 11

1. Write the shorthand electronic configurations for the following elements.
 - a. Ir
 - b. Sg

2. In which element
 - a. is the third energy level first completely filled with electrons.
 - b. does the first 7s electron appear.
 - c. is the 5f subshell first full.

3. An electron in an atom falls from the second to the first energy level and emits a photon of green light. The same electron is re-excited and then falls from the third to the second energy level. Would the photon emitted in the second case be more likely to be yellow or blue in color?