**Atoms: Electronic Configuration (ADV): Quiz 4a**

Please show work where necessary!

/5

*In the space below, write the core electron configurations of the following elements:*

1. Silver: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. W+5: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. [Xe] 6s24f145d6 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. [Rn] 7s25f11 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Determine if the following electronic configuration is valid**. *If they are valid simply write valid, if not write note valid explain why.*

1. [Xe]

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answers:

1. silver **[Kr] 5s14d10 (EXCEPTION!)**
2. W+5 **[Xe] 6s04f145d1**
3. [Xe] 6s24f145d6 **osmium**
4. [Rn] 7s25f11 **einsteinium**
5. [Xe] **not valid (an element can’t be its OWN electronic configuration)**