AP Chem Multiple choice HW I

Use the information, questions, answers and book to prepare a presentation that explains the correct answer to the questions below.

For both questions, assume that the temperature is 298 K, the pressure is 1.0 atm and solutions are aqueous unless otherwise specified.

1. Which of the following could be the identity of a white crystalline solid that exhibits the following properties:

\*It melts at 320 C

\*It does not conduct electricity as a solid

\*It conducts electricity in an aqueous solution

a.) C6H12O6(s)

b.) NaOH (s)

c.) SiO2 (s)

d.) Cu(s)

Answer: B

1. Which of the following identifies which has the higher first-ionization energy Cl or Ar, and supplies the best justification?
2. Cl, because of its higher electronegativity.
3. Cl, because of its higher electron affinity.
4. Ar, because of its completely filed valence shell.
5. Ar, because of its higher effective nuclear charge.

Answer: D

You must turn in a written description or a labeled drawing of your explanation after you present.