Use a grammar guide and the AIP Style Guide to answer the following:

1. When do you use a colon?

2. When do you use a semicolon?

Indicate which of the choices under each item are right or wrong.

1. a) We obtained two parameters: the quantum cyclotron radius and the Debye shielding radius.
   
   b) We obtained two parameters: The quantum cyclotron radius and the Debye shielding radius.

2. a) We are led to the following conclusion: the fast electron mode represents…
   
   b) We are led to the following conclusion: The fast electron mode represents…

3. a) Ask someone else to proofread it too: a fresh pair of eyes can find errors you have overlooked.
   
   b) Ask someone else to proofread it too; a fresh pair of eyes can find errors you have overlooked.
4. a) Our experience with diamond suggests several conclusions bearing on future XPS studies: First, surface contamination can contribute significantly to the observed spectra. Second, available calculations of the density…

b) Our experience with diamond suggests several conclusions bearing on future XPS studies: 1. Surface contamination can contribute significantly to the observed spectra. 2. Available calculations of the density…

5. a) When I cleaned out the refrigerator, I found: a chocolate cake, half eaten, canned tomato paste, turning green, and six month old meatloaf.

b) When I cleaned out the refrigerator, I found a chocolate cake, half eaten, canned tomato paste, turning green, and six month old meatloaf.

c) When I cleaned out the refrigerator, I found a chocolate cake, half eaten; canned tomato paste, turning green; and six month old meatloaf.