Chemical Elements

On http://academic.pgcc.edu/~ssinex/chm101.html you will find a set of PowerPoint slides on the Periodic Table of the Elements. Use these to address the following:

1. Name an element that has a biological function in trace quantities: _____
2. Name an element that has a biological function in large quantities: _____
3. Name three man-made elements: _____  _____  _____
4. Name two elements that are gaseous at room conditions: _____  _____
5. Name an element that is a liquid at room conditions: _____
6. Name an element that has NO stable forms (all radioactive): _____
7. Name an element that is molecular in its free form: _____
8. Name an element that is natural but does not occur on Earth: _____
9. Most elements exist as what state of matter? _____
10. Does uranium exist in a stable (non-radioactive) form? _____
11. A gaseous element that has NO stable forms (all radioactive): _____
12. Name an element in each of the following blocks:
   s block _____  p block _____  d block _____  f block _____
13. List the valence electrons for As __________ for Rb __________
14. Write the formula for an ionic hydride. __________
15. Name a radioactive natural element found on Earth: _____
16. An element that can form an ion with +3 charge and be isoelectronic with a noble gas: ______

17. Name an element that has similar properties to Sr: ______

18. Name an element that is extremely toxic: ______

19. For any element of your choice, go to the WebElements interactive periodic table at http://www.webelements.com and find the following information.

   Element ________________
   
   Density ______ Melting point ______ Boiling point ______
   
   A reaction of the element and the conditions required.

20. For the elements you selected for questions #1 and #2, using the WebElements, find the biological function of these two elements.