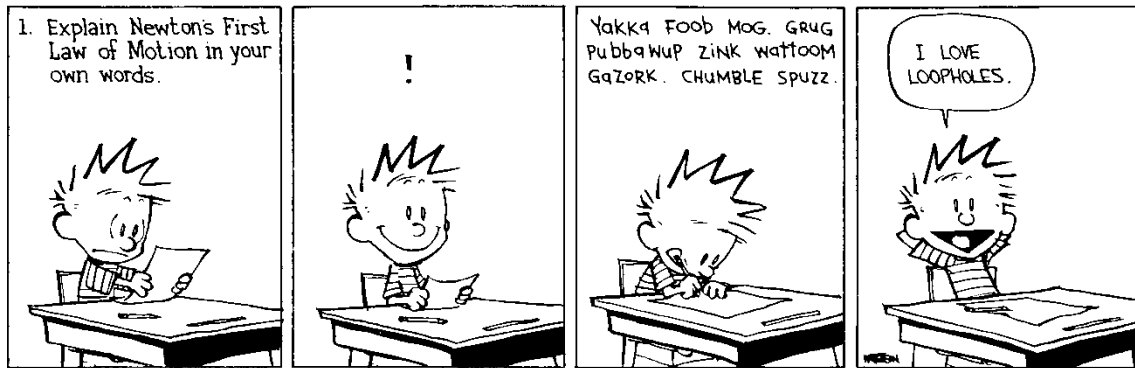


Name _____

BIOL 103 – Fall 2007 – Exam 4

Please do not start until everyone is ready.



(don't try this!)

1. (12 pts) List two characteristics of new urbanism, also known as “smart growth,” and two potential disadvantages of it.

2. (8 pts) What are endocrine disruptors? And how are they believed to affect wildlife?

3. (8 pts) Describe the health affects of asbestos exposure.

4. (10 pts) What lessons can we draw from the history of the toxicants listed below? For each toxicant listed below, write a one-sentence general statement about environmental health that is supported by reference to the history of the toxicant. One sentence is sufficient. Then, in 1-3 sentences describe why the history of that toxicant supports your statement. Do not derive lessons that tell people what they should or shouldn't to. For example, do not answer "Companies should take care of their workers."

Thalidomide

Lesson:

Why the lesson above is supported by the history of thalidomide:

Asbestos in Libby

Lesson:

Why the lesson above is supported by the history of asbestos in Libby:

5. (6 pts) You have purchased a house and have discovered that the paint on the window sills of what will be your two-year old daughter's bedroom is flaking off. You are concerned that the paint might contain lead.

a. What health affects does lead poisoning have on children?

b. What would the "precautionary principle" suggest you do?

c. If you wanted to test the paint for lead, what would you have to do?

6. (10 pts) Oceans contain tremendous amount of water. Describe one industrial process that can be used to desalinate seawater Why is it not used in more frequently?

7. (8 pts) What is the 100th meridian? And what is its significance to water resources in the United States?

8. (10 pts) Using an example (hypothetical, if you wish), explain the concept of “shifting baselines” OR the “tragedy of the commons.”

9. (8 pts) What is coral bleaching? What causes it? What is the most likely reason it is occurring more often?

10. (10 pts) What are chlorofluorocarbons? How do they affect the atmosphere? How might this affect human health?

11. (8 pts) The Montana Department of Public Health and Human Services recommends that women of child bearing age not eat lake trout caught in Montana Waters? Why might eating lake trout be unhealthy? And how have lake trout gotten to be so unhealthy?

12. (2 pts) “All persons are born free and have certain inalienable rights. They include the right to a clean and healthful environment...” What text is the preceding quote from?