

Name: _____ Pledge (sign): _____

Env Studies 201 Test #2

Point Total: 100 pts possible

- 6 pts 1. *In your own words*, define and describe the concept of sustainable development.
- 6 pts 2. What are Persistent Organic Pollutants (POPs) and why are they a problem?
- 6 pts 3. (a) The author of *The Story of Stuff* tells a story about a cheap radio. What is the point of her story? What's wrong with cheap 'stuff'?
- 6 pts (b) What is the *golden arrow* of *The Story of Stuff*, and how would Donella Meadows say it relates to the sustainable use of natural resources?

- 6 pts 4. In "The End of Cheap Oil," Campbell and Laherrère state that there is 150 Gbo left to be discovered in the world. How could they possibly know this?
- 6 pts 5. (a) In the Hydrogen Economy, is hydrogen an energy *source* or an energy *carrier*? Briefly explain your answer, and describe two sources of hydrogen.
- 6 pts (b) Why is elemental hydrogen so important for modern agriculture?
- 6 pts 6. (a) What is the *Green Revolution*?
- 6 pts (b) What do its detractors say about the Green Revolution? Be complete.

7. Explain in some detail why Technologists like Julian Simon are reassured by the following concepts. For each concept, describe the nature of the phenomenon and explain why it occurs. Include one figure in each answer.

10 pts (a) The demographic transition

10 pts (b) The environmental Kuznets curve

12 pts 8. (a) What are the two key attributes of common-pool resources (CPRs)? In your answer, distinguish between CPRs and public goods, and also give two examples of natural resources that can behave as CPRs.

14 pts (b) In some detail, describe the challenges in managing CPRs. In your answer, describe Hardin's solution(s) and also include a definition of the free-rider problem and why it can be an issue in CPR management.