

Name: _____ Pledge (sign): _____

Env Studies 201 Test #2

Point Total: 100 pts possible

- 6 pts 1. According to Julian Simon, what is 'the ultimate resource?'
- 6 pts 2. (a) Briefly (1-2 sentences) define *the hydrogen economy*.
- 6 pts (b) What are the potential advantages of the hydrogen economy? List as many as you can and briefly (1 sentence each) explain each.
- 6 pts (c) List some potential roadblocks to implementing this energy system. Be complete—list as many items as you can.

8 pts 3. Define the *materials economy*, as presented in *The Story of Stuff*; be sure to identify the 'golden arrow' and explain its significance.

8 pts 4. (a) What is the *demographic transition*, and what is the effect of this transition on a country's population?

12 pts (b) What causes the demographic transition? Explain in some detail.

8 pts 5. (a) Briefly describe the *tragedy of the commons*, including a description of the important properties of commons pool resources.

12 pts (b) There are a variety of strategies to avoid the tragedy. Describe in some detail (use the back of this sheet if necessary) the nature of the three main challenges that a proposed strategy must overcome to manage a commons successfully.

8 pts 6. (a) Define *sustainable development*, highlighting its three main aspects (the 'triple bottom line').

- 8 pts (b) List arguments—as many as you can—for and against aggressively pursuing the goals of sustainable development on a global scale. Note: you do not need to limit yourself to the arguments presented in the *Taking Sides* issue.
- 6 pts 7. (a) Supporters of GM crops contend that they will help alleviate global hunger with less environmental impact than conventional seeds. Explain their reasoning.
- 6 pts (b) Critics of GM crops disagree, stating the GM crops may even aggravate global hunger and can negatively impact the environment. Explain their reasoning.