

Name: \_\_\_\_\_ Pledge: \_\_\_\_\_

## Env Studies 201 Test #2

**Point Total:** 100 pts possible

6 pts 1. (a) What is the 'IPAT' identity?

6 pts (b) Using the IPAT identity, explain how one may argue that Earth's carrying capacity can be increased.

6 pts 2. (a) Define 'sustainable development.'

6 pts (b) Is sustainable development, as conceived by the Brundtland Commission, compatible with the idea of limitless economic growth? Why or why not? Be brief.

8 pts 3. What is 'the hydrogen economy?' Be brief but complete.

8 pts 4. (a) According to Paul Ehrlich, is population growth sustainable? Describe his reasoning.

8 pts (b) What does Julian Simon say about this? What are his reasons?

8 pts 5. In "The End of Cheap Oil," Campbell and Laherrère state that there are 850 Gbo left in all the existing oil fields of the world. How did they arrive at this number?

8 pts 6. In *Silent Spring*, which helped invigorate and popularize the environmental movement, Rachel Carson lamented the indiscriminate use of DDT and other synthetic pesticides. And yet Paul Muller won the Nobel Prize for his discovery of the insecticidal properties of DDT. Comment on the pros and cons of the use of DDT and similar products.

8 pts 7. Describe Integrated Pest Management (IPM) in a little detail. According to its supporters, what are its advantages?

8 pts 8. Lester Brown warns that food scarcity due to overpopulation is imminent. But Lappè and Collins have argued that world hunger is NOT due to overpopulation. What is their reasoning?

8 pts 9. Jared Diamond states that 'Easter Island is Earth writ small.' List the ways in which our global situation resembles that of Easter Island, as well as the major differences.

12 pts 10. Why does Garrett Hardin oppose sending food to starving nations? Answer in some detail; include in your answer a definition of the 'tragedy of the commons.'