

Name: _____ Pledge (sign): _____

Env Studies 201 Test #2

Point Total: 100 pts possible

- 6 pts 1. What is *Agenda 21*? Answer briefly (1-3 sentences).
- 6 pts 2. Jesse Ausubel argues that 'resources are elastic.' By way of explanation, recast his argument in terms of the 'IPAT' equation.
- 8 pts 3. Lester Brown described some of the problems of future food production. List them (as many as you can).

12 pts 4. Characterize each of the following as a 'Malthusian' or a 'technologist,' and briefly justify your choice.

(a) Julian Simon

(b) Gro Brundtland

8 pts 5. What is the 'pesticide treadmill?'

10 pts 6. What is a 'Hubbert curve' and what is its significance for our global oil resources?

8 pts 7. Rather than the more common 'high yield varieties,' Peter Rossett and his colleagues at Food First often use the phrase 'high response varieties' (HRVs) to describe seeds developed in the Green Revolution. What is the reason for their distinction?

10 pts 8. (a) With respect to the global human economy, what is *overshoot* and how is it caused? Answer in some detail.

8 pts (b) According to the authors of *Limits to Growth*, what are the two possibilities following overshoot? Explain each.

12 pts 9. In the Hydrogen Economy, is hydrogen an energy *source* or an energy *carrier*? Explain your answer in a detail. In your answer, be sure to describe the major sources of hydrogen production.

12 pts 10. According to Garrett Hardin, why does Adam Smith's 'invisible hand' fail when applied to common pool resources? Answer in some detail.