

Name: \_\_\_\_\_ Pledge (sign): \_\_\_\_\_

## Env Studies 201 Test #1

**Point Total:** 100 pts possible

- 5 pts 1. True or false: the Hetch Hetchy valley is part of the Yosemite National Park.
- 5 pts 2. How long does it take global biodiversity to 'rebound' from a mass extinction event? Circle one:
- (a) 1-2 decades
  - (b) 1-2 human generations
  - (c) Several centuries
  - (d) Several millenia
  - (e) Millions of years
- 6 pts 3. (a) What is an ecosystem?
- 8 pts (b) What are *ecosystem services*? In your answer, list five distinct ecosystem services and briefly describe each.

6 pts 4. Lynn White states that 'the victory of Christianity over paganism was the greatest psychic revolution in the history of our culture.' Explain in a little detail how, in White's view, this event contributes to modern environmental degradation.

6 pts 5. Explain the concept of 'standing to sue' using *Sierra Club v Morton* as an example.

6 pts 6. (a) Conflict about federal lands generally involves competition between resource uses. List the seven major resource uses of federal lands.

6 pts (b) Land owned by the federal government is divided into four major *systems* that we discussed in class. List these systems; for each system, identify the federal agency primarily responsible for its management.

12 pts 7. Describe *dependency theory* in some detail and explain how—according to Vandermeer and Perfecto—it results in tropical rain forest destruction.

12 pts 8. It has been proposed that a loss in diversity impairs ecosystem functioning. What are the main hypotheses proposed to explain this impact? Briefly explain each hypothesis.

6 pts 9. (a) What exactly is optimized when a *Pareto optimum* is achieved?

16 pts (b) Explain *in detail* (use the back of this sheet if you like) how cost-benefit analysis (CBA), coupled with the potential compensation criterion, leads to a Pareto optimum when applied to environmental problems.

6 pts (c) List the main criticisms of depending too heavily on CBA to guide environmental policy