

The first exam covers the following material:

Class lectures and discussion, March 2-April 1

Smith, *The Environmental Policy Paradox*, pages 126-214

*Taking Sides*, Numbers 5, 9-12, 16-19, pages 81-95, 166-242, 289-361

*Annual Editions*, Numbers 12-18, 20, 22-23, pages 107-153, 167-172, 182-199

The exam includes 20 true/false items worth two (2) points each, two identification items worth ten (10) points each, and one essay worth 40 points. The exam counts as 15% of your final grade.

**Part II: Identification:** You will define, illustrate, and explain the political importance of two of the following. You will be able to choose from four on the exam. Each identification item is worth 10 points. (TS=*Taking Sides*; AE=*Annual Editions*)

Urban Sprawl	Health effects of water pollution (Smith, ch 6)
Smart Grid	Safe Water Drinking Act (Smith, ch 6)
Non-point water pollution	Jimmy Carter's NEP (Smith, ch 7)
St. Louis water purification and the World's Fair	Obstacles to conservation (Smith, ch 7)
The "Dead Zone"	LULU (Smith, ch 8)
Standard Oil	R&D expenditures (AE #15)
Texas Railroad Commission	"Personalized energy" (AE #17)
Admiral Hyman Rickover	California's "hydrogen highway" (AE #18)
Price-Anderson Act	USCRTF (AE #20)
The "Feed-In Tariff"	Robert D. Bullard (TS #5)
Russell Bliss	CAFE standard (TS #10)
Mobro	Hormone mimics (TS #17)
Renewable Fuel Standard in the EPAct of 2005 (TS #11)	

**Part III: Essays:** You will write an essay in response to one of the following questions. The best answers will blend evidence from lectures and the books; they will be clear, concise, and they will use specific examples. polluter pays principle? What are the solutions to these problems?

- 1. Water.** Using class, Smith, and other sources, in what ways has water been important for American economic development? What kinds of water problems exist (be sure to distinguish between east and west, and point and non-point sources of water pollution, and the problem of groundwater)? Describe the chief federal policies that affect the quality of water in the U.S., paying particular attention to the Clean Water Act. What should be the top two or three priorities for American water policy in the next 20 years, and why? Be as specific as possible.
- 2. Nuclear Power.** What contribution did Hyman Rickover make to developing nuclear power? What contribution did the Price-Anderson Act make to nuclear power? What happened to nuclear power in the 1970s? Using *Taking Sides*, Smith and other sources, thoroughly give both sides of the case for reviving the nuclear power industry today (be sure to mention France). Do you think the arguments are stronger for or against developing more nuclear power in the U.S., and why?
- 3. Alternative energy.** Relying on Pasqualetti (AE 13), Komanoff (AE 14 or TS 9), Kammen (AE 15), Boone (TS 9), Zachary Smith, and any other sources, describe the geography of wind power in the U.S., the extent of its use in the U.S. today, government policy that affects wind energy, and the obstacles to expanding wind power. Relying on Satyapal, Pretrovic and Thomas (AE 12), and Keenan (AE 18), and other any sources, describe the state of hydrogen fuel today and the obstacles to the widespread commercial use of hydrogen fuel. If you were on key Congressional Committee and you could decide to put significant government funds into either solar power or hydrogen, which one would you choose? Justify your answer convincingly. Do not evade the question by answering "both."
- 4. Hazardous Waste.** Relying on Smith and other sources, how serious is the hazardous waste problem in the United States? Describe carefully how government has responded to the problem, paying particular attention to RCRA and CERCLA. Describe the regulatory problems involved in implementing RCRA, according to Smith. What does Smith mean by the "policy paradox" in hazardous waste management? Explain thoroughly.