Name:
Midterm Exam STS 201, Tahan March 4, 2005
Part 1: Definitions Define 3 of the 4 terms below. Nanoparticles:
Top-down:
Buckyballs:
STM:
Define 3 of the 4 terms below. Social Construction of Technology:
Technological somnambulism:

Technological Politics:
Interpretive Flexibility:
Part 2: Short Answer Questions Answer 5 out of the 6 questions below.
1.) Give two examples of why nanoparticles could be more toxic than microparticles.
2.) What does L. Winner mean by the title of his article "Technologies as Forms of Life"?
Give an example of a form of life that may emerge from nanotechnology.

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What happens to the bandgap as a semiconductor nanocrystal is decreased in size? How might this effect the use of these quantum dots for medical applications?
6.) Winner introduces two ways in which artifacts can contain political properties. What are they? Give their definitions. Give an example of each kind.

Part 3: Essay.

Consider nanomaterial-based stain-proof, stink-proof, antibacterial super clothes. From your knowledge of the reading, how might Leo Marx, Langdon Winner, and Kline and Pinch react to this technology and its societal implications. (Use only the rest of this page.)