NAN 242

Midterm 4 - Sample Questions

- 1. How does a p-n junction solar cell work?
- 2. Which factors affect the efficiency of a solar cell?
- 3. Describe one way in which nanoparticles can enhance solar cell efficiency.
- 4. Why are nanoparticles used in organic solar cells?
- 5. What is the function of the porous membrane in a battery?
- 6. Draw the Li-ion battery charge and discharge mechanisms (show the anode, cathode, electrolyte and the separator and the ion and electron flow directions).
- 7. Why do creating nanostructured anodes improve battery performance?