Study Questions for Natural Resources. Some things you may want to review:

- class PPTs, including Resources and the Environment; Ozone, GHE and Global Warming; Biogeochemical Cycles

-Energy sources research- pros and cons of energy sources (Moodle assignment due 12/21)

-vocab assignment

1. Explain what a natural resource is. Give the difference between renewable and nonrenewable resources. Provide examples of each.
2. Name some traditional sources of energy (which people have relied upon for years). Are these renewable or nonrenewable? Explain.
3. Describe basic energy use statistics for industrialized and developing nations (% renewable v. nonrewable)
4. Describe at least 2 land resources and give examples of each.
5. Describe the impact that humans have on land resources (desertification, urbanization, etc.)
6. What are the major components of air? How is air a natural resource? How have humans affected this resource?
7. Describe water resource statistics (How much is saltwater? freshwater?). Roughly what percent of Earth’s water resources are available for human use (for drinking, washing, etc.)? Why is this number so small?
8. Which areas on Earth are prone to water shortages? What about in the U.S.?
9. What is the difference between the greenhouse effect and global warming?
10. How are the greenhouse effect and global warming caused naturally (not by humans) on Earth? How are humans affecting these processes?
11. Explain how ozone is formed. How can ozone be both good and bad? How is ozone destroyed in the stratosphere?
12. Research the Montreal Protocol and the Kyoto agreement. What was their purpose? Did the United States support both measures?
13. How is acid rain formed? What is the largest contributor to acid rain?
14. What is the difference between point and nonpoint pollution? Give examples of each.
15. (Think about this)- What is the ultimate source for ALL ENERGY on Earth (even yours?).
16. Give examples of fossil fuels and explain how they are formed.
17. Give both advantages and disadvantages of using the following sources of energy: fossil fuels, water (hydroelectric), wind, biomass, nuclear, geothermal.
18. Explain how the water (hydrologic) works. Be able to identify the following parts of the cycle: precipitation, condensation, infiltration (percolation), surface run off, evaporation, transpiration (see the diagram given in class).
19. Explain how the carbon cycle works. How does carbon enter the ground and how are fossil fuels created? How is carbon removed from the atmosphere?
20. Describe how carbon enters the atmosphere both by natural and human sources.
21. Describe carrying capacity and relate human population to this idea.