

Chapter 18 Study Questions - Outline or Cornell Notes are also allowed

As always – be sure you know the meanings of all the bold and italic words.

### 18.1 – Fossil Fuels

- 1 Why are fossil fuels considered a form of solar energy?
2. What are the three main and two secondary forms of fossil fuels?
3. What percentage of world energy comes from fossil fuels?

### 18.2 – Crude Oil and Natural Gas

4. What are the circumstances that create reservoirs of oil and gas below the surface?
5. Describe the recovery of oil and natural gas. What is the difference between primary and enhanced production?
6. How large are current reserves of oil and how long are they expected to last?
7. What is "peak oil production" and what are some arguments that point to a crisis in oil availability?
8. How large are the current reserves of Natural Gas and how long is it expected to last?
9. Why is coal-bed methane a promising source of Gas for the US and what are some possible problems related to it?
10. Where and what are methane hydrates and whom might they benefit most?
11. What are the environmental effects of each of the following stages related to the consumption of oil and natural gas?(this will be a longer answer)
  - recovery
  - refining
  - delivery and use

### 18.3 - Coal

12. What are the different types of coal and how do they differ (use both the text and table 16.1)?
13. Describe the various methods used to obtain coal. How much coal will be made available through each of these methods?
14. Describe the environmental impacts of each type of method of coal recovery (mining)

15. Describe the methods used to decrease the impact of coal burning.

16. What are some ways that increased use of coal in the future could have significant impacts?

17. Describe how oil shale could be used to obtain fuel.

18. Describe allowance trading.

18.4

19. Describe how tar sands could be used to obtain fuel.