GEO 101 - Exercise 2: VIDEO: HOLE IN THE OZONE LAYER

1. What is the ozone gas composed of?
2. Ozone absorbs which wavelengths of the electromagnetic spectrum?

3. The ozonosphere is located in which layer of the atmosphere?
4. How far is it from the earth’s surface?
5. Besides skin cancer what other effects does an excess dosage of U.V. rays have on humans?

6. Where is the largest hole in the ozone layer located?
7. List 3 other areas in the Southern Hemisphere that are also experiencing ozone depletion.

8. During which months of the year does the ozone layer thin drastically over Antarctica?
9-10. What natural processes could also be contributing to ozone depletion?

11-12. What are other sources of chlorofluorocarbons besides aerosol propellants?

13-14. Explain how CFCs are rapidly destroying the ozone layer.

15. If the Montreal Protocol is fully implemented, in what year will all production of harmful CFCs cease?
16. What impact does increased dosage ultraviolet rays have on plants?

17. In North America skin cancer is increasing at what rate annually?
18. Briefly explain how polar stratospheric clouds contribute to ozone thinning at the South Pole.

19. How many minutes to burn for “Never Tans” skin type from moderate (6) UV exposure?
20. What should be done to regulate the global use of CFCs?