

Section 2D Review

Name _____

Pollutants:

- 1) What is the difference between a primary air pollutant and a secondary air pollutant?
- 2) Give an example of a human pollutant and a natural pollutant.
- 3) What are criteria pollutants?
- 4) List five common sources of air pollutants.
- 5) Describe four effects of air pollution.
- 6) Describe particulate pollution.
- 7) Does smog occur during the day or at night? Why?
- 8) What are the reactants for smog?
- 9) What are the products of smog?
- 10) What is photochemical smog? Explain why its name is an accurate description.

Acid Rain:

11) Classify each sample as acidic, basic or neutral.

Seawater, pH = 8.6 _____

Drain cleaner, pH = 13 _____

Vinegar, pH = 2.7 _____

Pure water, pH = 7.0 _____

12) What is the approximate pH of typical rain water? Does acid rain have a higher or lower pH?

13) What are the major acidic components in acid rain?

14) Why is acid rain considered a secondary pollutant?

15) What effects does acid rain have on plant life and building structures. Be specific.

16) Why is the presence of ozone regarded as a problem at ground level, while the absence of ozone is regarded as a problem in the stratosphere?

17) A smokestack has been shown to contribute toward the production of acid rain. Three samples are taken. Sample 1 is taken in the immediate vicinity of the smoke stack. Sample 2 is taken upwind of the smokestack and sample three is taken downwind of the smokestack. List the samples in the order you would expect to find the rain, from most acidic to least acidic.