**Pollution Test**

**Directions:** *Identify the letter that best answers each question by placing it on the line of the corresponding number. You may use your notebook.*

\_\_\_\_1. What agency is responsible for the Superfund?

1. Env. Protection Agency
2. Dept. of Env. Conservation
3. Dept. of Energy
4. Dept. of the Interior

\_\_\_\_2. Which of the following is the Earth’s overshoot day?

1. July 22
2. Sept 28
3. Aug 2
4. March 7

\_\_\_3. The optimal pH range for most organisms.

1. 3.0-3.5
2. 6.5-8.2
3. 9.0-10.5
4. 11.0-11.5

\_\_\_4. The Great Pacific Garbage Patch is estimated to hold how much plastic waste?

1. 56,000 tons
2. 79,000 tons
3. 104,000 tons
4. A whole lot

\_\_\_5. Which of the following is the molecular formula for ozone?

1. O
2. O2
3. O3
4. O4

\_\_\_6. The ozone layer protects us from what threat?

1. Ultraviolet radiation
2. Meteors
3. Global warming
4. Aliens

\_\_\_7. Acid rain is most prevalent in which US region?

1. West Coast
2. Mid-West
3. South
4. North East

\_\_\_8. What material is used to seal a sanitary landfill off from the external environment?

1. Clay
2. Cement
3. Concrete
4. Sand

\_\_\_9. Which of the following would **NOT** be considered impervious cover.

1. Golf course
2. Parking lot
3. Tar rooftop
4. Cement sidewalk

\_\_\_10. Acid rain can be attributed to natural sources.

1. True

b. False

**Directions**: *Fill in the blank with an appropriate word or phrase that best completes the statement.*

11. A movement that begins with ordinary people who want major change is referred to as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ movement.

12. A measure of your personal resource usage is referred to as your ecological \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

13. The chemical most responsible for damaging the ozone layer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

14. Neutral pH \_\_\_\_\_\_\_\_\_\_\_\_.

15. Many forests, streams, and lakes don’t suffer the effects of acid rain because the soil in those areas can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the acid rain by neutralizing the acidity.

16. Explain two ways acid rain can have damaging effects on a *human’s* ecosystem.

17. Microbeads have been banned in the USA. Why were they banned? Identify their specific impact on our ecosystems.

18. What is the difference between point source and nonpoint source pollution?

19. What is biomagnification? How can a substance like DDT or mercury, even in small amounts, be harmful to organisms at the top of the food chain? You may answer with a diagram.

20. Identify one method suggested for cleaning up the Great Pacific Garbage Patch.

Answer **two** of the following questions in 5-6 sentences (5 pts each).

a. Our society has become dependent on “one-and-done” plastic novelty items such as plastic bags and packaging. Identify three practical changes you can make in your lifestyle to reduce your plastic dependency. Explain how each change will lead to a reduction in your overall plastic waste production.

b. Choose one of the three superfund sites we discussed in class. Briefly outline the situation and how it was resolved. Be sure to include specific dates, agencies involved, and harmful chemicals present.

c. Of the three types of pollution discussed in class (ground, water, air), which do you suppose is the hardest to eliminate? To reduce? To clean? Can you imagine a time when we no longer produce pollution? If so, how can we accomplish such a thing? If not, what hurdles stand in our way?

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