Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Name 4 reasons for climatic variations on Earth.

2. Where are the tropics located?

3. Where are the polar zones located?

4. Where are the temperate zones located?

5. Which of the above would describe the overall U.S. climate regarding latitude?

6. Why are coastal regions warmer in winter and cooler in the summer than inland areas at

similar latitudes?

7. Temperature in the troposphere \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with altitude.

8. Explain orographic lifting.

9. What kind of clouds are produced from orographic lifting? Do these clouds produce

precipitation?

10. What are the two main causes of weather?

11. There are five combinations of air masses based on temperature and moisture. List each of

them and their abbreviation.

12. Give one example of a long-term climatic change.

13. Give one example of a short-term climatic change.

14. Earth’s seasons are caused by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

15. Describe El Niño.

16. Based on evidence from February 2019, in which both 4 peaks and the Superstition

Mountains were covered in snow due to increased stormy weather, is North America

experiencing El Niño?

17. What major greenhouse gas contributes to global warming?

18. What human activity increases the amount of carbon dioxide in the atmosphere?

19. What is photochemical smog?

20. What do CFCs destroy?

21. Which layer of Earth’s atmosphere is home to the ozone layer?

22. Which continent is the ozone hole located over?

23. How does acid precipitation form?

24. What naturally releases carbon dioxide into the atmosphere along with large

amounts of sulfur dioxide which produces acid precipitation?

25. What human made structure is known to produce acid precipitation?

26. Give an example of point source pollution.

27. Give an example of nonpoint source pollution.

28. Are deserts on the windward side of mountains or the leeward side?

