

Name:  
Surname:

### Acid Rain (Introductory)

Q.1. Fill in the blanks with suitable words.

- a) \_\_\_\_\_ measures how acidic or basic a substance is, and it ranges from 0 to 14.
- b) Acids have a pH of \_\_\_\_\_ than 7.
- c) Bases have a pH of \_\_\_\_\_ than 7.
- d) \_\_\_\_\_ is the dry form of precipitation consisting of water droplets that have a pH which is lower than normal rainwater.

Q.2. Write T or F if the statement is true; write F or False if the statement is false.

- \_\_\_\_\_ 1. Acid rain, or acid deposition, includes any form of precipitation, such as rain, snow, fog, and hail.
- \_\_\_\_\_ 2. Acid rain can have a pH of about 0.0 - 0.5.
- \_\_\_\_\_ 3. Acid rain is formed by only human activities.
- \_\_\_\_\_ 4. Acid rain harms plants, forests, animals, buildings materials, and statues.

Q.3. Label the gases that cause acid rain and the major components of acid rain.

- |                                    |  |
|------------------------------------|--|
| • Nitric acid ( $\text{HNO}_3$ )   | • Sulphur dioxide ( $\text{SO}_2$ )          |
| • Nitrogen oxide ( $\text{NO}_x$ ) | • Sulphuric acid ( $\text{H}_2\text{SO}_4$ ) |



Q.4. What is the pH of pure (unpolluted) rainwater?

- a) about 0.5
- b) about 5.6
- c) about 4
- d) about 7

Q.5. Which of the followings are main contributors to acid rain?

- a) Nitrogen ( $\text{N}_2$ ) and ozone ( $\text{O}_3$ )
- b) Ozone ( $\text{O}_3$ ) and Carbon dioxide ( $\text{CO}_2$ )
- c) Sulphur dioxide ( $\text{SO}_2$ ) and Nitrogen oxide ( $\text{NO}_x$ )
- d) Carbon dioxide ( $\text{CO}_2$ ) and Carbon monoxide ( $\text{CO}$ )

# Ph And Acid Rain Worksheet Answers

**L Darling-Hammond**



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