

## Acid Rain Quiz Answer Key PDF

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**Which of the following materials are most affected by acid rain?**

- A. Plastic
- B. Limestone ✓**
- C. Marble ✓**
- D. Steel

**Discuss the role of international cooperation in addressing the issue of acid rain.**

**International cooperation is crucial because acid rain is a transboundary issue. Countries must work together to reduce emissions of sulfur dioxide and nitrogen oxides through agreements and regulations, as pollutants can travel across borders.**

**How does acid rain affect soil quality and plant life?**

**Acid rain leaches essential nutrients from the soil, reducing its fertility. It also damages plant leaves and bark, making them more susceptible to disease and harsh weather, and can stunt plant growth.**

**What are some global effects of acid rain?**

- A. Cross-border pollution ✓**
- B. Global warming
- C. Biological diversity loss ✓**
- D. Ocean acidification

**Which of the following are potential health impacts related to the pollutants causing acid rain?**

- A. Respiratory problems ✓**
- B. Skin cancer
- C. Cardiovascular issues ✓**

D. Improved digestion

**What are some technological advancements that have been made to reduce emissions causing acid rain?**

**Technological advancements include the use of scrubbers in industrial plants to clean emissions, catalytic converters in vehicles, and the development of cleaner energy sources like wind and solar power.**

**What is the primary cause of acid rain?**

- A. Carbon dioxide emissions
- B. Sulfur dioxide and nitrogen oxides emissions ✓**
- C. Methane emissions
- D. Ozone depletion

**What is the typical pH level of acid rain?**

- A. Above 7
- B. Exactly 7
- C. Below 5.6 ✓**
- D. Between 6 and 7

**Which of the following are effects of acid rain on the environment?**

- A. Acidification of lakes and streams ✓**
- B. Improved air quality
- C. Damage to forests ✓**
- D. Increased soil fertility

**Which of the following is a natural source of acid rain?**

- A. Car exhaust
- B. Volcanic eruptions ✓**
- C. Factory emissions
- D. Deforestation

**What is the primary human activity contributing to acid rain?**

- A. Agriculture
- B. Transportation
- C. Industrial combustion of fossil fuels ✓**
- D. Urban development

**Which region is most affected by acid rain in the United States?**

- A. Southwest
- B. Midwest
- C. Northeast ✓**
- D. Southeast

**Which U.S. legislation aims to reduce acid rain?**

- A. Clean Water Act
- B. Endangered Species Act
- C. Clean Air Act ✓**
- D. National Environmental Policy Act

**Why is acid rain considered a transboundary environmental issue, and what challenges does this pose for mitigation efforts?**

**Acid rain is transboundary because pollutants can travel long distances in the atmosphere before falling as precipitation. This poses challenges for mitigation as it requires international collaboration and consistent policies across countries to effectively reduce emissions.**

**Explain how sulfur dioxide and nitrogen oxides contribute to the formation of acid rain.**

**Sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) are released into the atmosphere from burning fossil fuels. They react with water vapor, oxygen, and other chemicals to form sulfuric and nitric acids, which then fall as acid rain.**

**Describe the impact of acid rain on aquatic ecosystems.**

**Acid rain lowers the pH of water bodies, leading to the acidification of lakes and streams. This harms aquatic life by disrupting reproductive processes, reducing biodiversity, and causing fish and**

other organisms to die.

**Which pollutants are primarily responsible for the formation of acid rain?**

- A. Carbon monoxide
- B. Sulfur dioxide ✓**
- C. Nitrogen oxides ✓**
- D. Methane

**What is the role of scrubbers in industrial plants?**

- A. Increase emissions
- B. Reduce emissions ✓**
- C. Monitor emissions
- D. Measure emissions

**Which type of rock is most susceptible to damage from acid rain?**

- A. Granite
- B. Basalt
- C. Limestone ✓**
- D. Sandstone

**What are some methods to reduce acid rain?**

- A. Use of scrubbers in power plants ✓**
- B. Increasing fossil fuel use
- C. Transition to renewable energy sources ✓**
- D. Implement stricter emission regulations ✓**