

**Pre- and posttest for concepts related to the hydroponics activity.**

Circle the letter of the correct answer or provide a written response in the area provided.

- 1) A neutral pH has a value of
  - a) above 7.0
  - b) equal to 7.0
  - c) below 7.0
  - d) below 5.6
  
- 2) An acid has a pH value of
  - a) above 7.0
  - b) equal to 7.0
  - c) below 7.0
  - d) below 5.6
  
- 3) A base has a pH value of
  - a) above 7.0
  - b) equal to 7.0
  - c) below 7.0
  - d) below 5.6
  
- 4) Acid rain has a pH value of
  - a) above 7.0
  - b) equal to 7.0
  - c) below 7.0
  - d) below 5.6
  
- 5) The presence of what compounds in the atmosphere results in acid rain?
  - a) sulfur oxides
  - b) nitrogen oxides
  - c) hydrogen oxides
  - d) both a) and b)
  - e) both a) and c)
  
- 6) Describe some of acid rain's effects on the environment.
  
  
  
  
  
  
  
  
  
  
- 7) Which of the following are considered greenhouse gases?
  - a) water vapor
  - b) carbon dioxide
  - c) methane
  - d) all of the above
  
  
  
  
  
  
  
  
  
  
- 8) What is the current concentration of carbon dioxide in the atmosphere?
  - a) 240 ppm
  - b) 290 ppm
  - c) 340 ppm
  - d) 390 ppm
  
  
  
  
  
  
  
  
  
  
- 9) Describe the greenhouse effect.
  
  
  
  
  
  
  
  
  
  
- 10) Discuss some harmful effects of global warming.