- 5) After a can of Coca-Cola is opened, the soda will go "flat" after several hours. Which of the following statements best explains this behvior of Coca-Cola?
  - A) The decrease in pressure incident on the solution caused by the opening of the can decreases the solubility of CO<sub>2</sub> in the solution.
  - B) Oxygen in the air tends to displace the dissolved CO<sub>2</sub> in the soda.
  - C) Unsaturated solutions of simple sugars will readily effervesce.
  - D) Saturated solutions of simple sugars will readily effervesce.
  - E) Nitrogen in the air tends to displace the dissolved CO<sub>2</sub> in the soda.

## Answer Key

## Testname: QUIZ\_SOLUTION\_CONCENTRATION\_AP\_CH\_11.TST

## MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) B ID: chem9b 13.1-54
- 2) C ID: chem9b 13.1-57
- 3) A ID: chem9b 13.1-62
- 4) B ID: chem9b 13.1-68
- 5) A ID: chem9b 13.2-11

## AP Chemistry Quiz: Solution Convention PAGE Version A

assume 12

$$P6 \times 1 = 207.2$$
  
 $N \times 2 = 28.0$   
 $0 \times 6 = 96.0$   
 $351.29/mole$ 

1702 g Solution  

$$-240.45$$
 g Solvent  $=$   
 $\Rightarrow 961.55$  g Solvent  $=$   
 $961.55$  g Solvent  $=$  0.96155 kg Solvent

(2) 
$$15.0g + 250g = 265g$$
 solution  
115.0g + 250g = 265g solution  
115.0g + 250g = 265g solution

265g Solution 
$$\times \frac{1}{0.974 \, g} \times \frac{1}{1000 \, me} = 0.272 \, L$$
 Solution

$$\frac{(4)}{4} \frac{1}{6} \text{ mass} = \frac{\text{mass solute}}{40^{\frac{1}{2}} \frac{100}{1000}} \times 100 = 0.129 \times 100 = 12.9\%$$

(5) A