## Chapter 6 Study Guide

## **Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

	1.	In a	In a solution, the substance that is being dissolved is the			
		a.	solute	c.	liquid	
		b.	solvent	d.	gas	
	2.	In:	In soda pop (club soda), the solvent would be the			
		a.	sugar	c.	water (the soda)	
		b.	carbon dioxide (CO <sub>2</sub> ) the gas	d.	flavoring	
	3. A solution that contains all of the solute it can hold at a given temperature is					
		a.	dilute	c.	supersaturated	
		b.	unsaturated	d.	saturated	
	4.	Αli	A liquid mixture in which particles can be seen and easily separated by settling or filtration is a			
		a.	solution.	c.	solvent.	
		b.	suspension.	d.	colloid.	
	5.	The	The particles in a colloid are			
- T	٠.	a.	too small to scatter light.			
		b.	larger than particles in a suspension.			
		c.	the same as solute particles in a solut	ion.		
		d.	undissolved particles that do not settl		t.	
	6. When 40 mL of alcohol form a solution with 30 mL of water, (The solution is most					
	٥.	a.	alcohol is the solvent.		o me or water, (the solution is mostly alcoholy	
		b.	water is the solvent.			
		c.	both alcohol and water are solvents.			
		d.	neither alcohol nor water is a solvent.			
	7	1.33	Veak tea is an example of a			
	7.	a.	dilute solution.	c.	saturated solution.	
		b.	concentrated solution.	d.	supersaturated solution.	
	0	8. When you add so much solute that <b>no</b> more dissolves, you have a				
	٥.		saturated solution.		supersaturated solution.	
		a.	unsaturated solution.	c. d.	STATE OF THE STATE	
	0	AND MATERIAL TO AND THE CONTROL OF T				
-	9.		ich of the following solutions is the most concentrated?			
		a.				
		b.				
		c.	25 g of table sugar in 75 g of water 25			
		d.	30 g of table sugar in 100 g of water 3	0/10	00 = .30	
	10.	Wh	What does it mean if a compound has a solubility of 15 g in 100 g of water at 0°C?			
		a.	a. 100 g of the compound will dissolve in 15 g of water at 0°C.			
		b.	15 g of the compound will dissolve in :	100	g of water at 0°C.	
		c.	c. The compound will not dissolve until 15 g of it are present.			
		d.	The compound will dissolve only if the			
	11.	and the second control of the second control				
		a.	Chill the water.	c.	Increase the amount of sugar.	
		b.	Decrease the pressure.	d.	Heat the water.	
		100000		5000		