

PURE SUBSTANCES AND MIXTURES UNIT TEST

/30

CLASS:

NAME:



A) True and False (7 points)

1. _____ 0.7% of the earth's water is fresh water.
2. _____ Canadians use, on average, 200 litres of water per day.
3. _____ 7.4% of the earth's water is ice.
4. _____ Flourine is added to water by municipalities to prevent tooth decay.
5. _____ An unsaturated solution can dissolve more solutes without its temperature being raised.
6. _____ Apples have a lower pH than tomatoes and are considered more acidic.
7. _____ When an acid is mixed with a base, the base is neutralized.

B) Short Answer Questions

1. What can you do at home to help conserve water? (1 points)
2. If a solution is saturated, what can you do to allow it to dissolve more solutes? (1 pts)
3. Looking at the following items, state which is the **solvent**, **solute**, and **solution type**. (3pts)

Pop _____ Carbon Dioxide (gas)
_____ water
_____ gas-liquid

Maple Tree Syrup _____ Solid-liquid
_____ water (liquid)
_____ sugar (solid)

Vinegar _____ liquid-liquid
_____ water (liquid)
_____ acetic acid

C) 1) Name seven elements of the *periodic table*, the full name, not the symbol. (3 points)

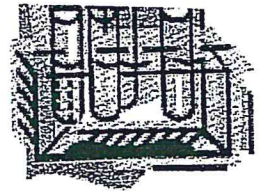
2) (a) What does the "pH" stand for from the "*pH scale*"? (1 point)

(b) What does the pH table describe? (1 point)

(c) What do the numbers from the pH scale vary from and to? (1 point)



(d) Looking at the following pH scale (see next page), list **three items** that are considered **basic** and **three items** that are considered **acidic**. (2 points)



(e) Milk of magnesia is **how much more** acidic than ammonia solution? (1 point)

(f) Toothpaste is **how much more** acidic than ammonia solution? (1 point)

(g) Please name three acids. (2 points)

D) Define six of the following seven: (6 points – 1 each)

Solubility _____

Solute _____

Solution _____

Solvent _____

Dissolve _____

Residue _____

Saturated _____

Bonus Question: Name four symbols used in the periodic table to represent an element? (1 point)

The pH scale

