

## Semester 2 Final Exam Review – Answer Key

1. Mendeleev
2. Electrons in the outer-most energy shell of an atom
3. F, O, N
4. -ide
5. Atoms with a full valence shell
6. Molarity (M) = moles per liter = moles/liters
7. Basic, alkaline
8. Group or Family
9.  $6.02 \times 10^{23} \times 5 = 3.01 \times 10^{24}$
10. Fluid, compressible, take the shape and volume of the container, molecules are far apart (low density)
11. Period
12. Acidic
13. High boiling point, low vapor pressure
14. A homogeneous mixture of only one phase; solute dissolved in a solvent
15. 22.4L
16. Endothermic
17.  $\text{Zn}(\text{NO}_3)_2$
18. H, N, O, F, Cl, Br, I
19. Nature of the reactants, temperature, surface area, concentration, catalyst
20. Calorie = energy required to raise 1g of water 1 degree Celcius
21. Volume is directly proportional to temperature @ a constant pressure ( $V_1/T_1 = V_2/T_2$ )
22. Iron(II) chloride
23.  $\text{Ba}(\text{NO}_3)_2$
24.  $\text{PbCO}_3$
25. Reactants react to form products
26. Synthesis, decomposition, combustion, single replacement, double replacement
27. Water and carbon dioxide
28. Right side,  $-\Delta H$
29. The energy require to form an activated complex and have a reaction proceed to form products
30. Exothermic,  $\Delta H = -585\text{kJ}$ 
  - Convert mass to moles:  $34\text{g} + 17\text{g/mol} = 2 \text{ mol NH}_3$
  - Multiply by energy/mole ratio:  $2 \text{ mol NH}_3 \times (-1170\text{kJ})/4 \text{ mol NH}_3 = -585\text{kJ}$
31. Concentration, temperature, pressure (gas, heterogeneous system)
32. A buffer solution is a solution of a conjugate acid-base pair. A buffer system prevents significant changes in pH when a small amount of acid or base is added to the solution. Your body has a bicarbonate buffer system in the blood which helps maintain you blood's pH.
33. Unsaturated = more room for solute @ temp; saturated = solute maxed out @ temp; supersaturated = more solute than maximum for given temp

# Nd Semester Final Exam Review Science Answer

**Julie Schacht Sway**



## **Nd Semester Final Exam Review Science Answer:**

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