

**Chem 101—General Chemistry  
Practice Final Exam**

Name \_\_\_\_\_

$h = 6.626 \times 10^{-34} \text{ J s}$  (Planck's Constant)

$c = 3.00 \times 10^8 \text{ m/s}$  (speed of light)

$R_{\text{H}} = 1.097 \times 10^{-7} \text{ m}^{-1}$  (Rydberg Constant)

**Multiple Choice (5 points each)**

*Identify the letter of the choice that best completes the statement or answers the question and legibly write the letter in the space preceding the problem number.*

- \_\_\_\_\_ 1. Which of the following is not a solution?
- red wine
  - alcohol in water
  - brass
  - air
  - ice in water
- \_\_\_\_\_ 2. Which of the following statements concerning the atom is false?
- Chemical reactions involve only the electrons.
  - The atom contains protons, neutrons and electrons.
  - Protons are found in orbits about the nucleus.
  - The nucleus contains both protons and neutrons.
  - Most of the mass of the atom is found in the nucleus.
- \_\_\_\_\_ 3. Which of the following statements about two isotopes is false?
- They will have the same charge on the nucleus.
  - They will have different numbers of neutrons.
  - They will have essentially the same chemical reactivity.
  - They will have the same atomic numbers.
  - They will have the same atomic weights.
- \_\_\_\_\_ 4. Which element can be classified as an alkaline earth metal?
- Al
  - Mg
  - Ag
  - Au
  - Na
- \_\_\_\_\_ 5. Which combination below corresponds to a cation with a +1 charge?
- 7 protons and 8 electrons
  - 11 protons and 10 electrons
  - 18 protons and 18 electrons
  - 17 protons and 18 electrons
  - 20 protons and 18 electrons

# College Chemistry Final Exam Practice Questions

**David Baud**



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