

CHEMISTRY 101 Practice Exam 1 DR. PECK

- Directions:
- (1) Choose the best answer for each multiple choice question (numbers 1 - 15). Transfer your multiple choice answers onto the scantron.
 - (2) Do not separate any of the pages. When finished, give the proctor at the front of the room both the exam and the completed scantron. Cover your exam and your work whenever possible.

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(NOTE: This practice exam does not contain questions based upon topics from Chapter 5. The actual exam may or may not depending upon our ability to cover Chapter 5 in lecture before the date of the first exam.)

1. Which one of the following is a weak acid?
 (a) HBr (b) HClO₄ (c) HNO₃ (d) HCl (e) HClO₂

2. What is the oxidizing agent in the following reaction?

$$6\text{KOH(aq)} + 3\text{Cl}_2\text{(g)} \rightarrow \text{KClO}_3\text{(aq)} + 5\text{KCl(aq)} + 3\text{H}_2\text{O(l)}$$
 (a) KOH (b) KCl (c) KClO₃ (d) Cl₂ (e) H₂O

3. Balance the following equation with the **smallest whole number coefficients**. What is the coefficient for HCl in the balanced equation?

$$\text{SnS}_2 + \text{HCl} \rightarrow \text{H}_2\text{SnCl}_6 + \text{H}_2\text{S}$$
 (a) 4 (b) 6 (c) 3 (d) 12 (e) 2

4. Classify the following reaction by giving **all** of these reaction type(s) that apply.

I. redox	II. combination	III. decomposition
IV. displacement	V. metathesis	

$$2\text{PbO(s)} + \text{O}_2\text{(g)} \rightarrow 2\text{PbO}_2\text{(s)}$$
 (a) I and V (b) only II (c) I and II (d) only III (e) only V

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