

CHEM EXAM 3 Fall 2009 - Form A

Fill in your name, CID and section on this test booklet. Fill in and bubble in your name, CID (for the letter "C" bubble zero), section and "001" on the scantron form. For questions #66, mark A. For each question, read all possible choices then mark the best one on your scantron. Use a #2 pencil and make clean answers to insure proper scoring. When finished, turn in your scantron and show this booklet and your CID to the proctor. All questions are worth 4 points each. Let your knowledge show!

1. Which of the following is balanced correctly?

- A. $\text{CH}_4 + 2 \text{O}_2 \rightarrow \text{CO}_2 + 2 \text{H}_2\text{O}$
 B. $6 \text{H}_2\text{O} + \text{P}_4\text{O}_{10} \rightarrow 4 \text{H}_3\text{PO}_4$
 C. $3 \text{H}_2 + 3 \text{N}_2 \rightarrow 2 \text{NH}_3$
 D. $2 \text{C}_2\text{H}_6\text{O} + 3 \text{O}_2 \rightarrow 2 \text{CO}_2 + 4 \text{H}_2\text{O}$

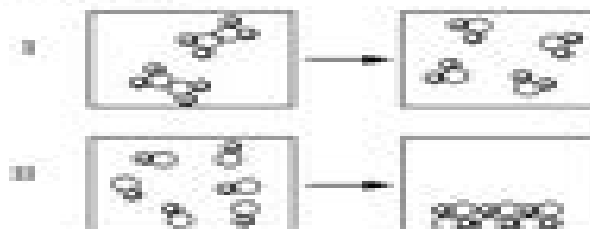
A chemical equation is balanced when the same number of atoms are in the reactants and products. The reactants in B contain 16 oxygen atoms, but the products contain only 12 (B). The reactants in C contain 6 nitrogen atoms, but the product contains only 2 (C). The reactants in D contain 6 carbon atoms, 16 hydrogen atoms, and 8 oxygen atoms. The products contain 2 carbon atoms, 8 oxygen atoms, and 8 hydrogen atoms (D).

2. Which of the following is an oxidation-reduction reaction?

- A. $2 \text{NaCl (aq)} + \text{Ca(NO}_3)_2 \text{ (aq)} \rightarrow 2 \text{NaNO}_3 \text{ (aq)} + \text{CaCl}_2 \text{ (aq)}$
 B. $\text{CrCl}_3 \text{ (aq)} + 3 \text{KOH (aq)} \rightarrow 3 \text{KCl (aq)} + \text{Cr(OH)}_3 \text{ (s)}$
 C. $\text{KOH (aq)} + \text{HCl (aq)} \rightarrow \text{KCl (aq)} + \text{H}_2\text{O (l)}$
 D. $2 \text{CrCl}_3 \text{ (aq)} + \text{CuCl}_2 \text{ (aq)} \rightarrow 2 \text{CrCl}_2 \text{ (aq)} + \text{Cu (s)}$

An oxidation-reduction reaction is one in which electrons are transferred from one or more atoms in the reactants to one or more atoms in the products. The reactants and the products in A are all strong electrolytes (a net ionic equation, A). Two aqueous solutions react in B to form a solid precipitate, B. A strong acid reacts with a strong base in C to form an ionic salt and water (acid-base, C). Two aqueous solutions react to form a solid in D, but chromium in CrCl_3 has an oxidation number of +3. In CrCl_2 , it has an oxidation number of +2. Copper in CuCl_2 has an oxidation number of +2. Solid copper has an oxidation number of 0. Therefore, chromium is oxidized while copper is reduced (an oxidation-reduction reaction).

3. Which of the following transfers heat to the surroundings?



- A. I only
 B. II only
 C. Both I and II
 D. neither I or II

In Figure I, the bond between the two white spheres is broken. In Figure II, six molecules combine to form a solid precipitate. Bond breaking requires energy (endothermic), while bond forming releases energy (exothermic).

4. How many grams of N_2H_4 would be required to react completely with 19.0 g of O_2 according to the balanced chemical equation?



- A. 37.1 g
 B. 42.1 g
 C. 74.2 g
 D. 23.2 g
 E. 26.5 g

The chemical equation is used to relate the number of moles of one substance to the number of moles of another. If grams of O_2 is given, it needs to be converted to moles. The coefficients are used as mole ratios, and the formula mass of N_2H_4 is used to get back to grams:

$$\begin{aligned} 19.0 \text{ g O}_2 & \left(\frac{1 \text{ mol O}_2}{32.0 \text{ g O}_2} \right) \left(\frac{2 \text{ mol N}_2\text{H}_4}{3 \text{ mol O}_2} \right) \left(\frac{32.0 \text{ g N}_2\text{H}_4}{1 \text{ mol N}_2\text{H}_4} \right) \\ & = 37.3 \text{ g N}_2\text{H}_4 \end{aligned}$$

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