Chem 30B Spring 2004

QUIZ #3
(15 Min)

Weds June 9th

INTERPRETATION OF THE QUESTIONS IS PART OF THE EXAM – DO NOT ASK FOR THE QUESTIONS TO BE EXPLAINED TO YOU

USE CAPITAL LETTERS WHEN FILLING IN THE BOXES AND BE CLEAR – IF WE CAN’T FIGURE OUT WHAT A LETTER IS, IT WILL AUTOMATICALLY BE GRADED AS INCORRECT

***DO NOT OPEN THIS EXAM UNTIL INSTRUCTED TO DO SO***

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ANSWER TO BONUS QUESTION
The two most abundant things in the universe are hydrogen and stupidity – Harlan Ellison

Questions 1–10 are worth 3 points each. The bonus is worth 5 points.

1. A carbonyl group is one in which a carbon atom is double-bonded to which other element?
   A Carbon
   B Sulfur
   C Phosphorus
   D Oxygen
   E Nitrogen

2. A compound that contains as its only functional group a carbon double-bonded to a nitrogen is best described as an –
   A Enamine
   B Imine
   C Amine
   D Amide
   E Imide

3. A lot of the reactions you have seen in carbonyl chemistry are reversible, and I often tell you that the product you get depends upon how you control the equilibrium. The principle of shifting equilibria is often phrased as – “If a dynamic equilibrium is disturbed by changing the conditions, the position of equilibrium moves to counteract the change.” Which famous scientist is this principle named for?
   A Le Chatelier
   B Lavoisier
   C Grignard
   D Wolff-Kishner
   E Ketal

4. Which of the following examples of organic compounds DOES NOT contain a carbonyl group?
   A Acid anhydride
   B Amide
   C Sulfonamide
   D Imide
   E Acid chloride

5. The Wittig reaction is used in synthesis to make –
   A Carbon–Oxygen double bonds
   B Carbon–Nitrogen double bonds
   C Carbon–Phosphorus double bonds
   D Carbon–Carbon double bonds
   E Carbon–Ruthenium double bonds
6. There are two TAs for this class. What is the name of the tallest one?

A Al 
B Stuart 
C Mike 
D Dave 
E Rob 

7. A carbon atom that is drawn incorrectly with more than four bonds attached to it is often described in this class as coming from which state?

A Florida 
B Texas 
C Kentucky 
D Oregon 
E California 

8. On what days are Prof Cantrill’s office hours?

A Tues/Wed 
B Mon/Thurs 
C Wed/Fri 
D Tues/Thurs 
E Mon/Fri 

9. The textbook we use in this class is Brown & Foote. Foote is a professor at which school?

A Harvard 
B UCLA 
C UC Berkeley 
D Stanford 
E USC 

10. The final for this class will be held on what day next week?

A Monday 
B Tuesday 
C Wednesday 
D Thursday 
E Friday 

**BONUS QUESTION**

On April 23rd, I quoted a passage to you from Shakespeare’s ‘Henry V’. I did this to celebrate the feast day of the Patron Saint of England. What is the name of England’s Patron Saint? (Write your answer on the cover sheet).