

Last Name	First Name	MI
Student ID Number:		Total Score          <b>/ 30</b>
Circle the height of your TA:    The TALL one    The SHORT one		
Discussion Section – Day:	Time:	

## 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\*\*\****

Q	1	2	3	4	5	6	7	8	9	10	Total
<b>X</b>											
<b>ANSWER TO BONUS QUESTION</b>											

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).