Q	X	Name (First, MI, Last):
1		Student ID Number:
2		Circle the name of your TA: AL CARI ROB
3		
4		Discussion Section – Day: Time:
5		Chem 30B Fall 2003
6		
		QUIZ #2
7		(15 Min)
8		Monday November 3rd
9		
10		INTERPRETATION OF THE QUESTIONS
		IS PART OF THE EXAM – DO NOT ASK
11		FOR THE QUESTIONS TO BE
12		EXPLAINED TO YOU
13		USE CAPITAL LETTERS WHEN FILLING
		IN THE BOXES AND BE CLEAR – IF WE
14		CAN'T FIGURE OUT WHAT A LETTER
15		IS, IT WILL AUTOMATICALLY BE GRADED AS INCORRECT
16		***DO NOT OPEN THIS EXAM UNTIL
17		INSTRUCTED TO DO SO***
18		
19		TOTAL = /36
20		Answer if E:

"I love deadlines. I like the whooshing sound they make as they fly by." - Douglas Adams

Questions 1–18 are worth 2 points each:





Propanone can be reduced to 2-propanol using which of the following reagents:

A LiAlH₄ B Zn/HCl (Clemmensen) C KOH/H₂NNH₂ (Wolff-Kishner) D All of them E None of them



The major product of the reaction shown above is:



17. Reaction of an organolithium reagent with an aldehyde gives:

A An Alcohol B A Ketone C An Ether D An Epoxide E A Carboxylic Acid

18. The compound pictured below is:



A A Ketal B A Hydrate C An Acetal D A Hemiacetal E A Hemiketal

19. EXTRA CREDIT (3 points):



When D-Glucose is dissolved in water, it is present in solution as:

A I B II C III D I and II E II and III F I and III G I, II and III H None of the above

20. BONUS QUESTION (2 points): In YOUR OPINION, which ONE of the following 20th Century breakthroughs in science or technology has the most profound implications for the future of the human race?

- A Elucidation of the DNA double helix and decoding of genomes
- **B** The invention of the computer
- **C** The splitting of the atom
- **D** Man escaping the confines of Earth and, for example, landing on the Moon
- **E** Something else (write your answer on the cover page if you pick **E**)