

CH 237 Spring 2017
Organic Chemistry II
Name _____
Student # _____

Exam I

87

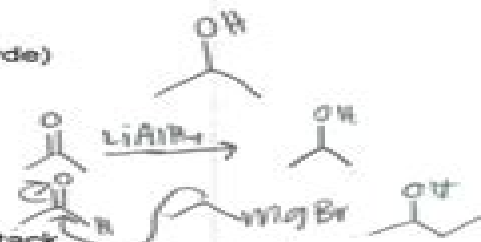
February 9, 2017

This exam is divided into two parts: multiple choice, and problems. Answer all questions in pencil, not ink. All work must be shown in order to receive full credit. No cell phones, beepers, PDAs, or other electronic devices are permitted in the lecture hall during the exam! Any acts of dishonesty will result in expulsion from the exam and a grade of zero.

Multiple choice. Choose one correct answer and record it on the scantron provided. (30 pts)

1. Which of the following would yield a secondary alcohol after the indicated reaction, following hydrolysis if necessary?

- a) LiAlH_4 and a ketone
b) $\text{CH}_3\text{CH}_2\text{MgBr}$ and an aldehyde (other than formaldehyde)
c) 2-Butene and Hg(OAc)_2 , H_2O followed by NaBH_4
d) Only c
e) All of these

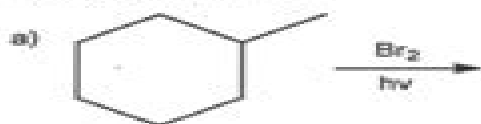


When the carbonyl group of a neutral ketone is protonated:

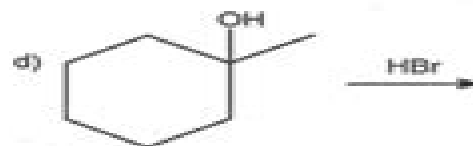
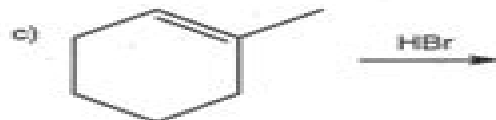
- a) the resulting species becomes more electrophilic.
b) the resulting species is activated toward nucleophilic attack.
c) subsequent nucleophilic attack on the resulting species is said to occur under acid-catalyzed conditions.
d) the resulting species has a positive charge.
e) All of the above.



3. Which of the following is not a viable method for the preparation of 1-bromo-1-methylcyclohexane?



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- e) All methods shown above are viable.

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Subject Guide to Books in Print, 2001

The Journal of Industrial and Engineering Chemistry, 1913

Chemists' Guide to Effective Teaching Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have

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