

CHEM 8410_6410_4410 - Organic Synthesis

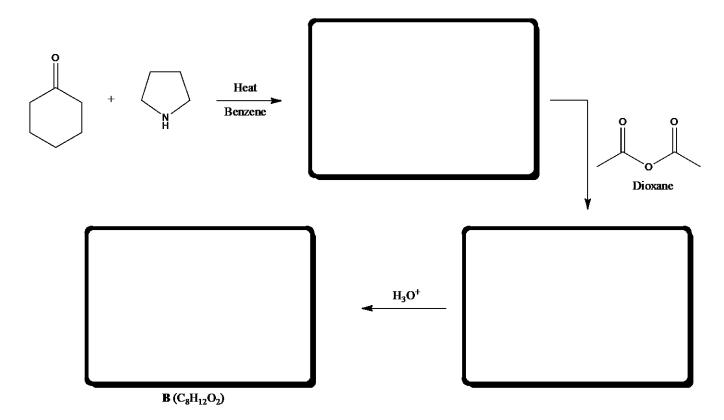
THE UNIVERSITY OF		
TOLEDO		
1872		

Instructor: Prof. Andreana Room #: BO 2059

Quiz #3 of 5 10 PTS Your Name:

Student Number:

1) Provide the structure of product ${\bf B}$ as well as other missing intermediates in the following sequence of the reaction. ${\bf 4}$ ${\bf PTS}$





CHEM 8410_6410_4410 - Organic Synthesis

2) What controls the stereochemistry of this product? You are advised to draw a mechanism first and then consider the stereochemistry. You should be able to draw the half-chair to convince yourself of the noted stereochemical outcome. Label which half-chair you will have drawn. 4 PTS

Answer:



CHEM 8410_6410_4410 - Organic Synthesis

3) Provide the reagents required for the synthesis of **2** and **3**. Furthermore, provide the transition state(s), if any, for the reactions that will explain the stereochemical outcome. Is attack from the *Re-* or *Si-*face – note for both cases? **2 PTS**

Answer: