



# CHEM 8410\_6410\_4410 – Organic Synthesis

THE UNIVERSITY OF  
**TOLEDO**  
1872

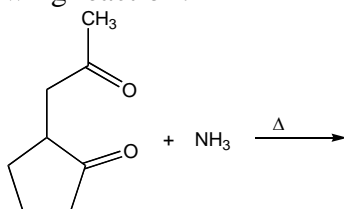
Quiz #2 of 5  
Your Name: \_\_\_\_\_

10 PTS

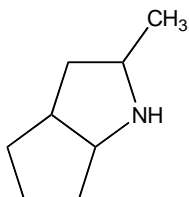
Instructor:	Prof. Andreama
Room #:	BO 2059

Please Circle the Correct Letter. 2 PTS/Question

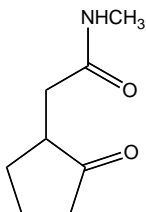
1. What is the product of the following reaction?



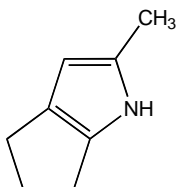
A)



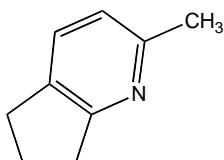
B)



C)



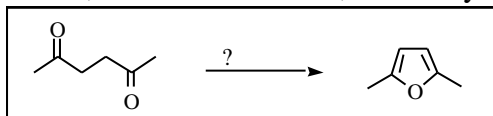
D)



E) none of the above

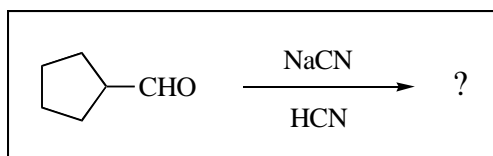


2. Which reagent might convert 2,5-hexanedione to 2,5-dimethylfuran?



- A)  $P_2O_5$
- B)  $NaBH_4, CH_3OH$
- C)  $Na, EtOH$
- D)  $NaOH, heat$
- E)  $H_2, Pt$

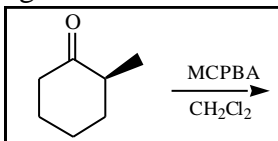
3. What would you expect to result from the following reaction?



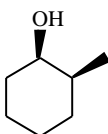
- A)
- B)
- C)
- D)
- E)



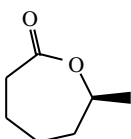
4. Predict the product of the following reaction:



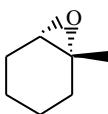
A)



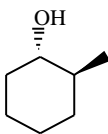
B)



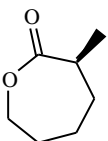
C)



D)

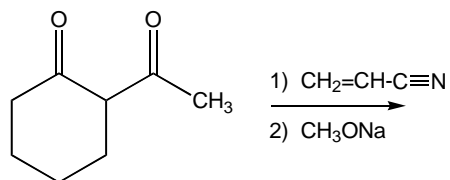


E)

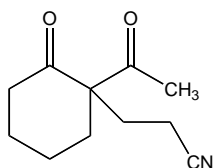




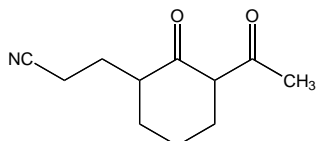
5. What product do you expect from the following reaction?



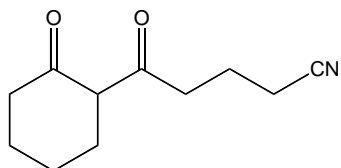
A)



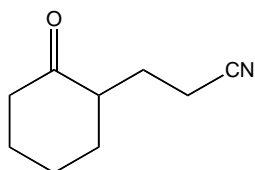
B)



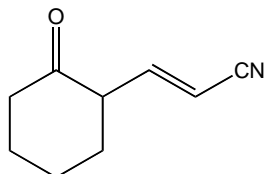
C)



D)



E)





**Answer Key**

1. C
2. A
3. C
4. B
5. A