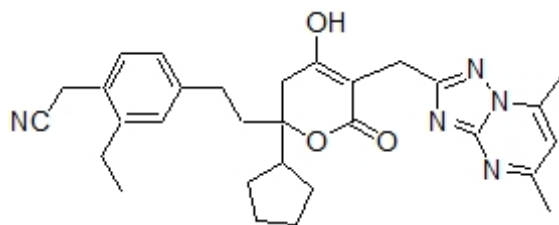


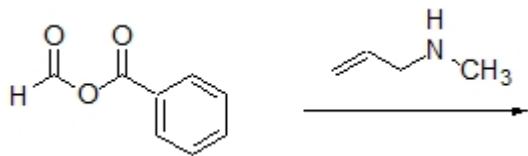
Name: \_\_\_\_\_

**Organic II Lecture**  
**Spring 2009**  
**Quiz #8**  
(10 points)

1. The following compound is being examined in the treatment of hepatitis C virus (J. Med. Chem. 2009, 2366). Circle all carbon centers at the same oxidation state as a carboxylic acid. (2 point)



2. Predict the structure of the expected products of the following reaction. (3 points)



3. What is another name for a polycarbamate? (1 point)
4. Provide a mechanism for the base hydrolysis of  $\gamma$ -butyrolactone. Include all correct arrow pushing of electrons, intermediates and formal charges. (4 points, problem 21-18)

