ORGANIC CHEMISTRY LABORATORY

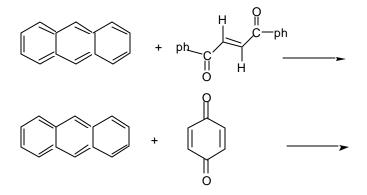
CHEMISTRY DEPARTMENT

F/C3545 & C3545 Fall 1999

Postlab questions: Diels-Alder Reaction

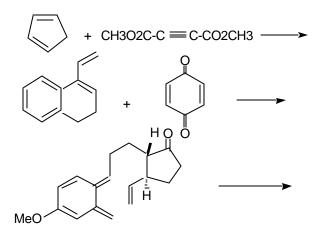
1. (9 pts)

a). Predict the structure of the product of the reactions given below.



b) Offer an explanation of why anthracene preferentially forms a Diels-Alder adduct at the 9, 10 position. (Consult advanced organic chem. by Jerry March page 43)c) There are four resonance structures for anthracene. Draw them.

2. Show arrows for electron movement in each of the Diels-Alder reactions below, and show the product. (9 Points)



3. What starting material will be necessary to prepare the following compound by Diels-Alder reaction? (2pts)

