



Quiz #5 of 5

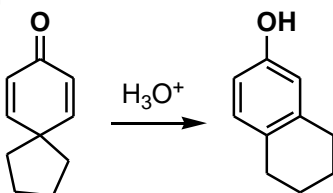
10 PTS

Instructor: Prof. Andreana
Room #: FH 2030

Your Name: _____

Student Number: _____

1) In a general reaction known as the *cyclohexadienone-phenol rearrangement*, cyclohexadienones are converted to phenols under conditions of acid catalysis. An example is:



Write a reasonable mechanism for this reaction. **3 PTS**

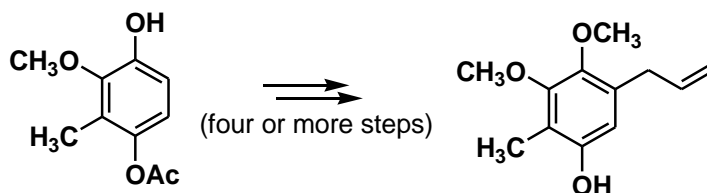
ANSWER:



CHEM 8410_6410_4410 – Organic Synthesis

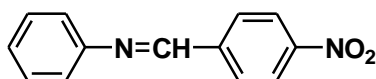
THE UNIVERSITY OF
TOLEDO
1872

2) Describe a scheme for carrying out the following synthesis. (In the synthesis reported in the literature, four separate operations were required.) **4 PTS**



ANSWER:

3) Outline a synthesis of the following compound from nitrobenzene, *p*-nitrobenzyl alcohol, and any necessary organic or inorganic reagents. **3 PTS**



ANSWER: