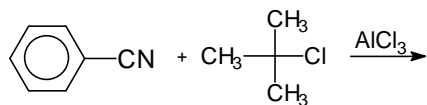


B

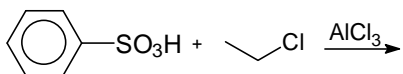
Student ID _____

MARK ONE ANSWER FOR EACH QUESTION ON BOTH THE EXAM AND YOUR SCANTRON!

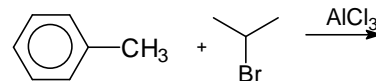
1. We discussed the fact that Friedel-Crafts alkylations fail for some aromatic substrates. How many of the following reactions can be expected to succeed?



rxn 1



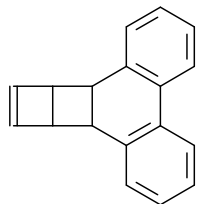
rxn 2



rxn 3

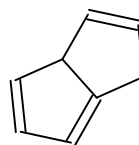
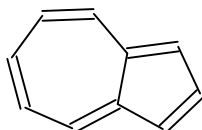
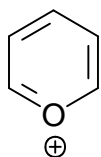
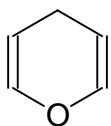
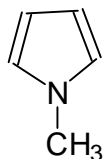
- A. reaction 1 only B. reaction 2 only C. reaction 3 only D. reactions 1 and 2
E. reactions 2 and 3

1. Cyclobutadiene is extremely reactive and undergoes Diels-Alder additions with various dienophiles. Which dienophile would generate the product below?



- A. diphenylethyne B. cis-1,2-diphenylethene C. anthracene D. phenanthrene E. biphenyl

3. How many of the following compounds are aromatic? The all abide by Huckel's rule.



- A. Only one B. two C. three D. four E. all

4. **This is version B. Please circle 4 B on your scantron!**

Key qu232-01_2_101b:

1. C
2. D
3. C