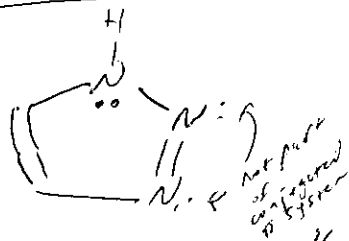
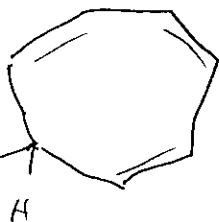


Answer Key - Practice Exam 1

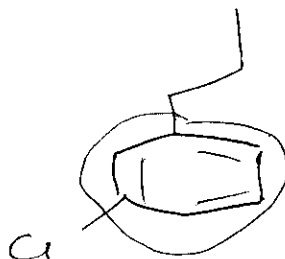
1.



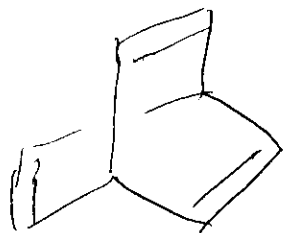
aromatic
planar
cyclic
fully conjugated
6 πe^-



not aromatic
not fully
conjugated



aromatic
(consider ring
only)



not aromatic
not planar
not fully conjugated

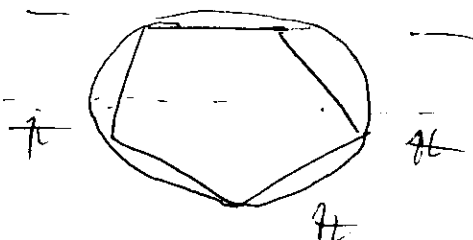


not aromatic
not cyclic



aromatic 6 πe^- , etc.

2.

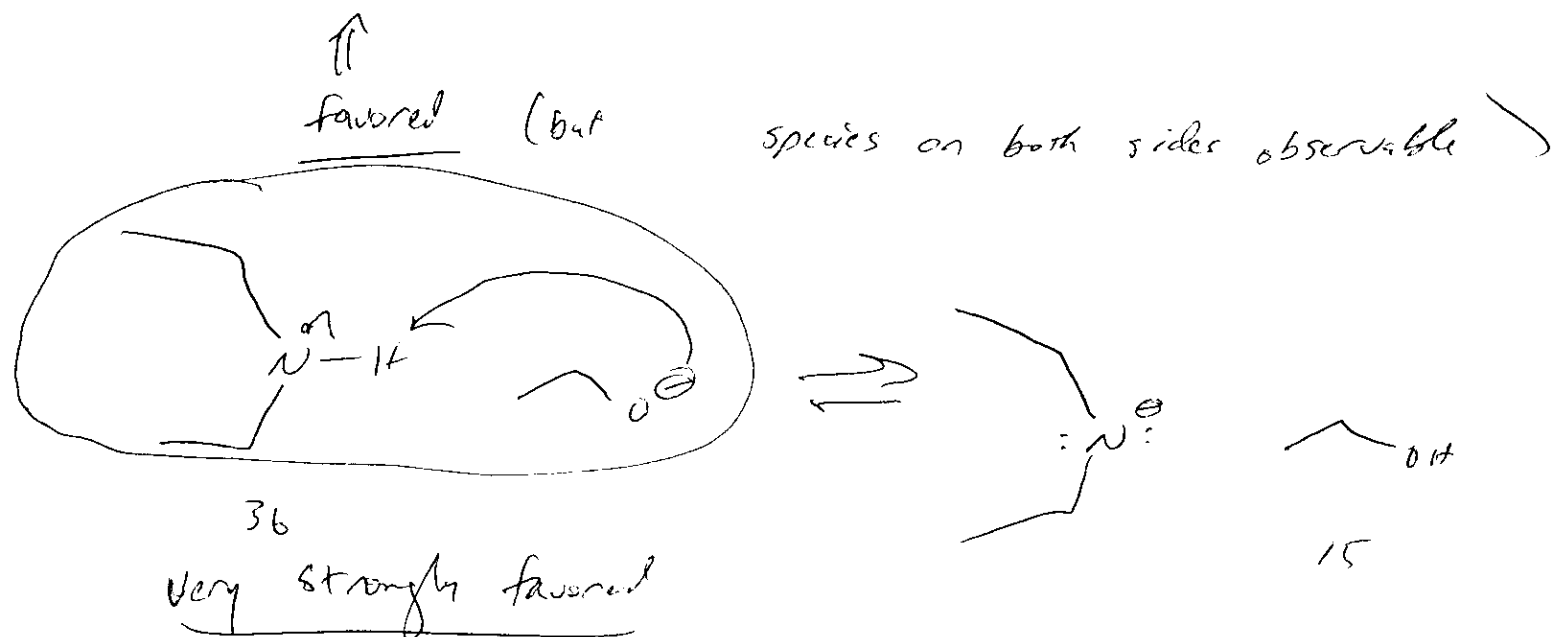
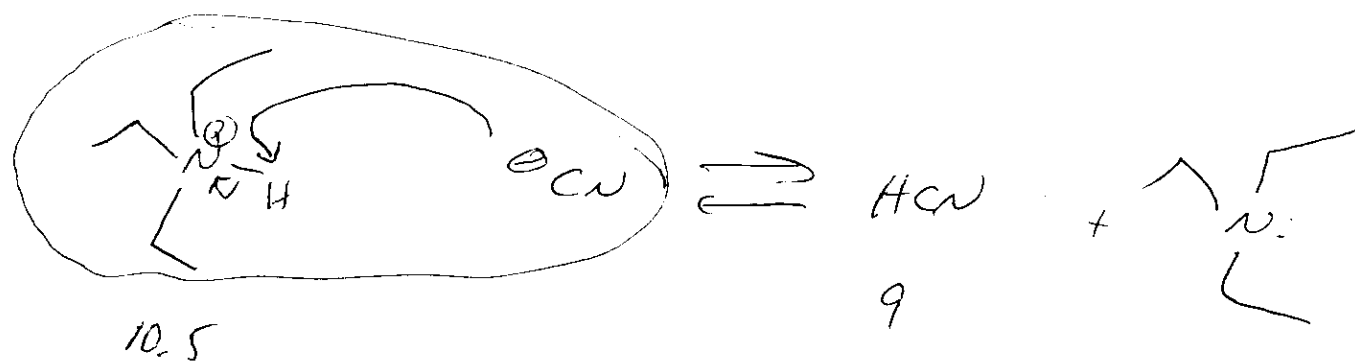
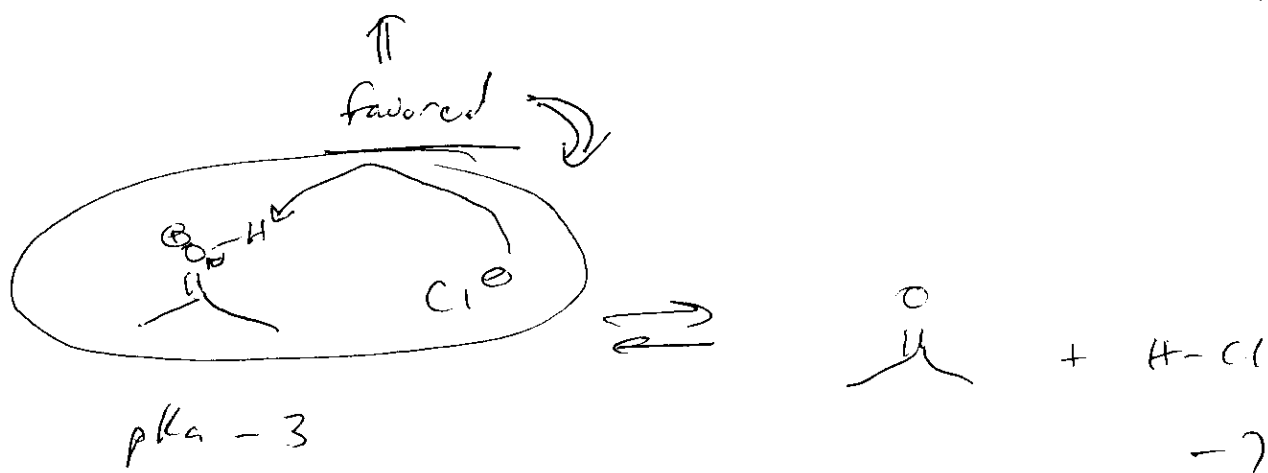
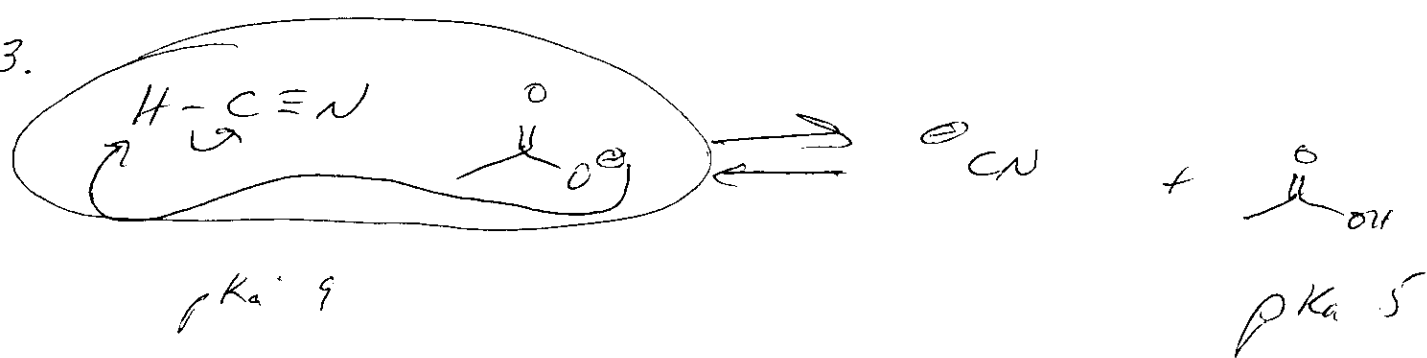


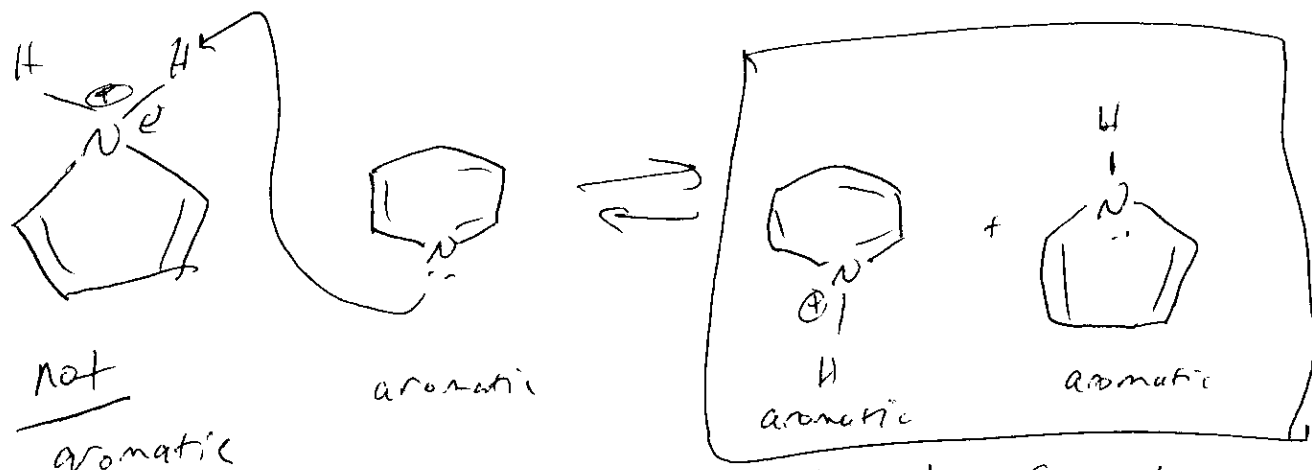
aromatic

planar, cyclic, fully conjugated

all πe^- in bonding
orbitals, paired

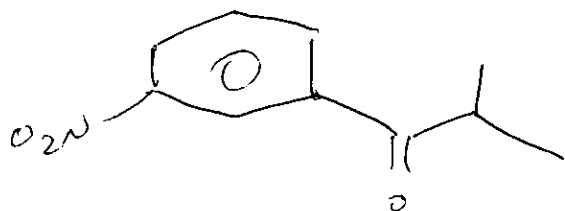
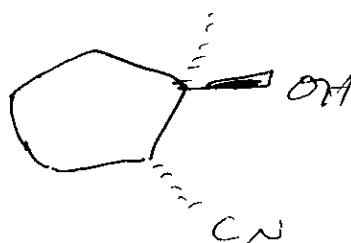
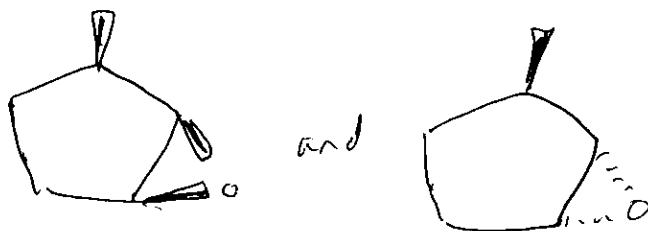
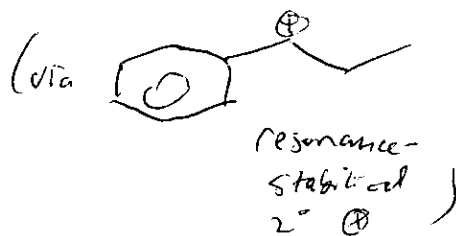
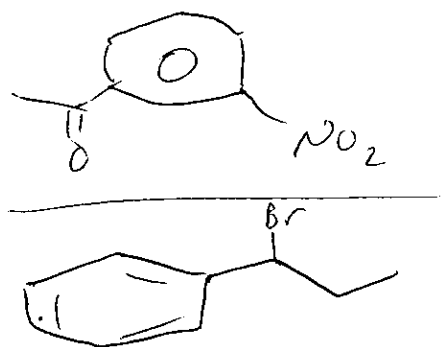
3.



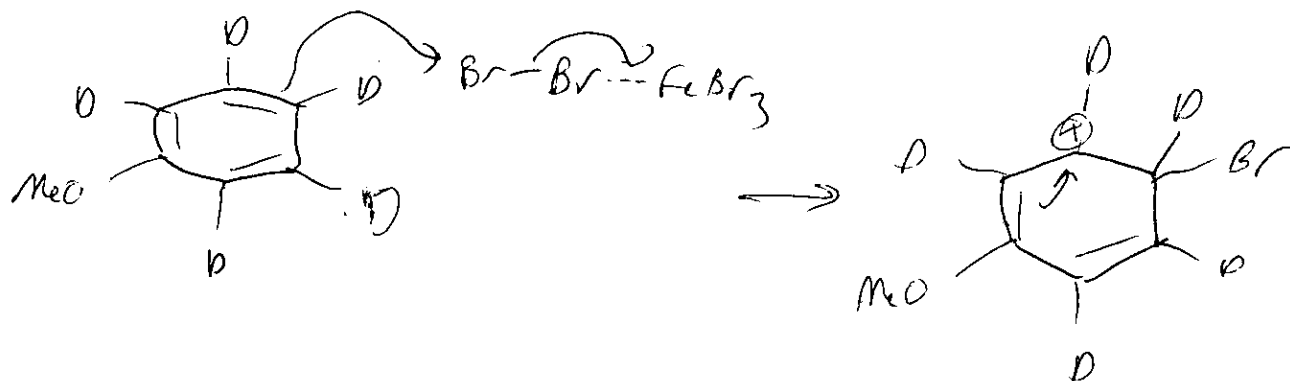
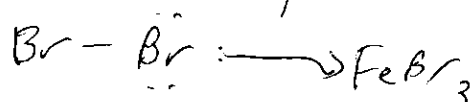


Strongly favored
(aromaticity as driving force)

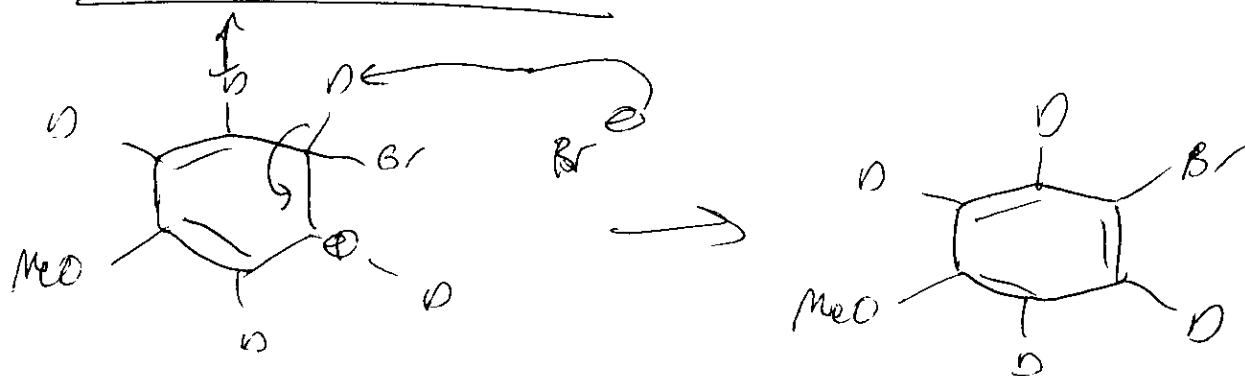
4.



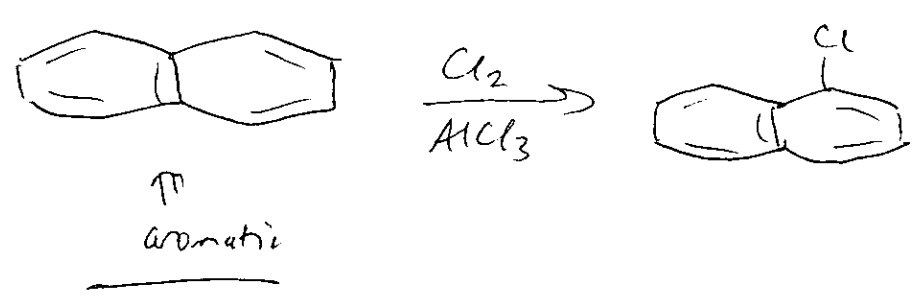
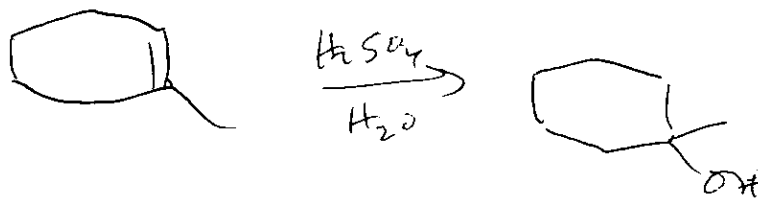
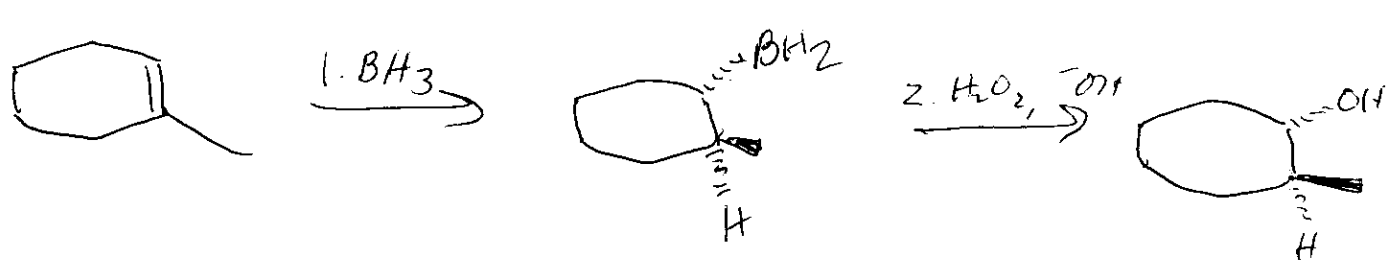
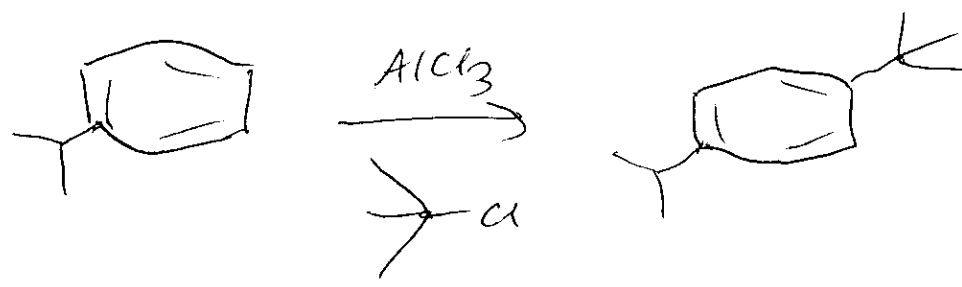
I. D = heavy isotope of H = chemically treat as H



best resonance structure



6.



electrophilic
 aromatic
 substitution
 works on
 aromatic comp's
 other than
 benzene derivatives

