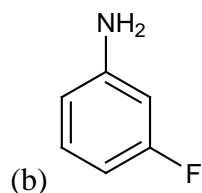


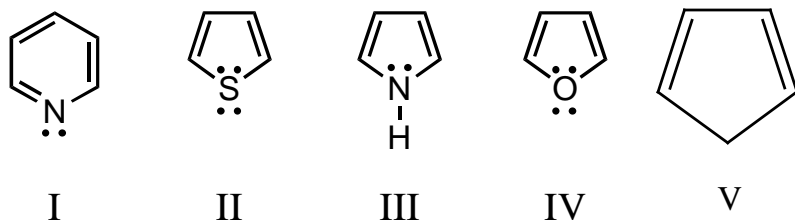
Homework/Problem Set
Chapter 14 (Aromatic Compounds)

1. Give correct names or draw the structure for the following compounds:

(a) 2,3-dinitrotoluene



2. Which compound would you NOT expect to be aromatic?



3. How many monochloronaphthalenes are possible?

4. In the molecular orbital model of cycloheptadienyl cation, how many pi-electrons are delocalized about the ring?

5. Compound **M** has molecular formula C_9H_{12} . The 1H NMR spectra is given below. Propose a structure. The IR spectra has medium intensity peak at 1640 cm^{-1} and a weak aromatic combination peaks between $1810\text{-}2200\text{ cm}^{-1}$.

