

1. Draw the structures of each compound.

o-nitroanisole

p-aminobenzoic acid

p-divinylbenzene

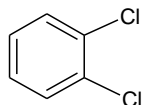
p-bromostyrene

3,5-dimethoxybenzaldehyde

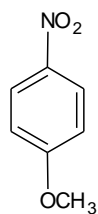
2-phenylpropan-1-ol

2. Name the following compounds.

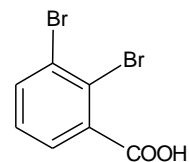
a)



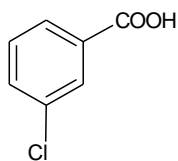
b)



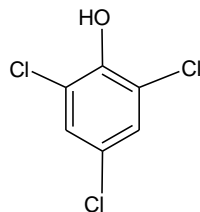
c)



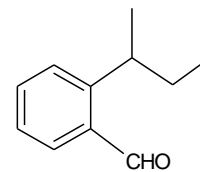
d)



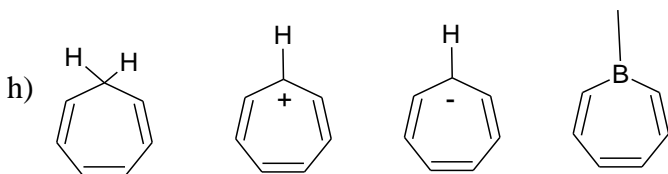
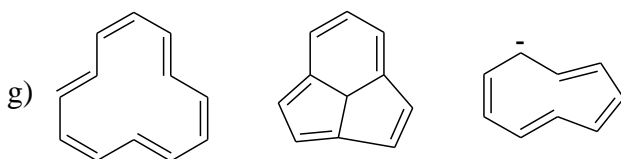
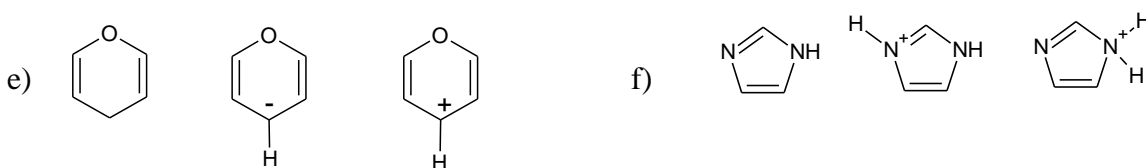
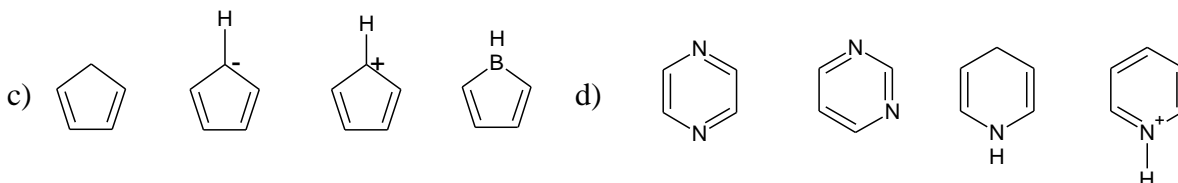
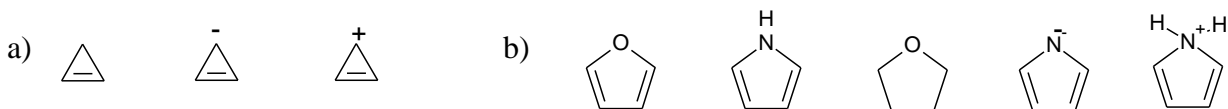
e)



f)



3. The following molecules and ions are grouped by similar structures. Classify each as aromatic, antiaromatic or non aromatic. For the aromatic and antiaromatic compounds/ions, give the number of pi electrons.



4. Each of the following heterocycles include one or more nitrogen atoms. Classify each nitrogen atom as strongly or weakly basic according to the availability of its lone pair of electrons.

