

## 17.10: ADDITIONAL EXERCISES

### General Review

17-1 State whether the following molecules are aromatic, antiaromatic or nonaromatic.

a)



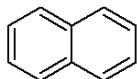
b)



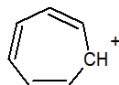
c)



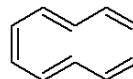
d)



e)



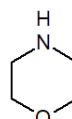
f)



17-2 Predict which of the following nitrogen-containing heterocycles is more acidic than the other. Provide a reason for your choices.

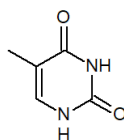


A

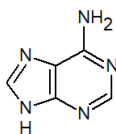


B

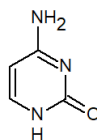
17-3 For the following bases of DNA, identify the heterocyclic compound that makes up the core structure of each one - purine or pyrimidine?



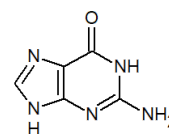
Thymine



Adenine



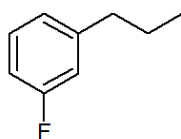
Cytosine



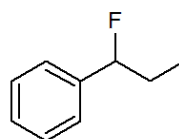
Guanine

17-4 Provide the proper IUPAC names for the following compounds.

A



B



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