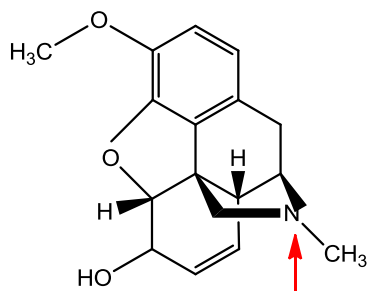


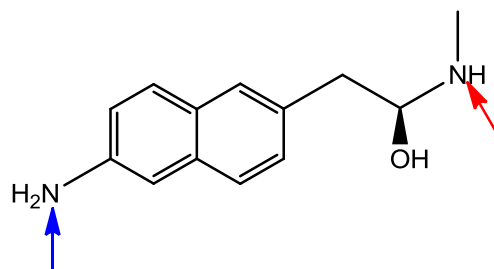
MEDCEM 562

Problem Set 1 - key

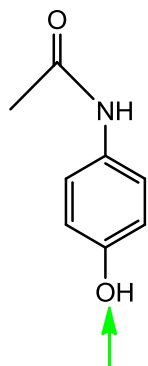
1. Examine the drug structures below. First identify the functional group(s) in each molecule that can exist in a charged form. Then for each group in each structure, indicate the predominant ionization state at pH 3, pH 7 and pH 11.



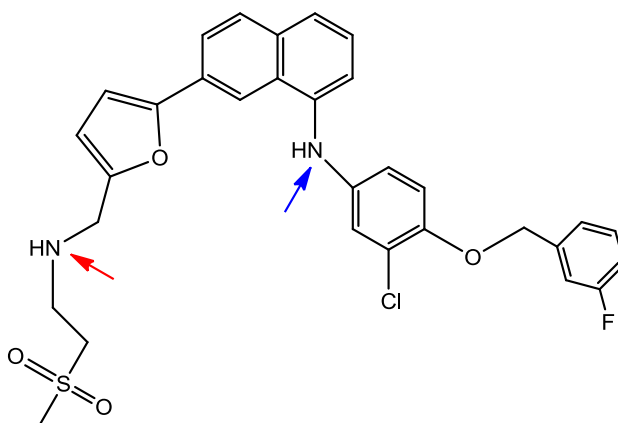
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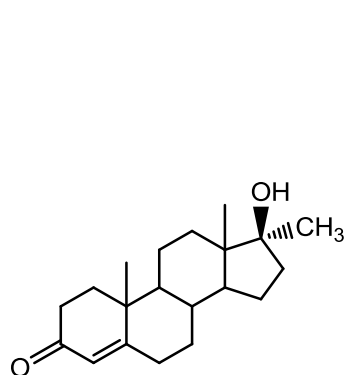
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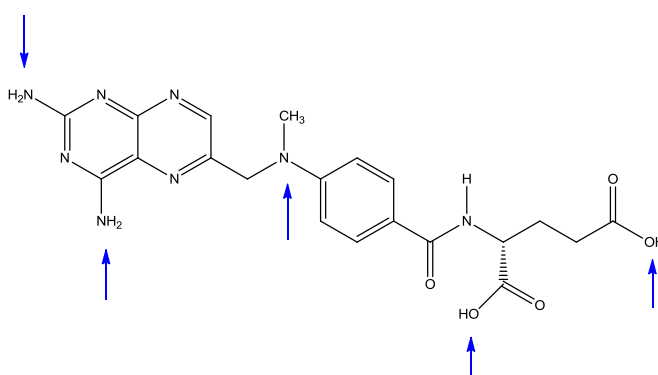
3



4



5



6

