31. Which of the following causes its aqueous solution to be basic?
   
   a) NaHSO₄
   b) LiClO₄
   c) KClO
   d) FeBr₃

32. Which one of the following solutions would have a pH of 7.0?
   
   a) Na₂S
   b) FeCl₃
   c) NaClO₄
   d) CH₃NH₂Cl
   e) None of these

33. Rank the relative pH’s for solutions of the following salts, from lowest pH to highest pH, given the following acidity data:

   HCN (Kₐ = 4.9 x 10⁻¹⁰)  HF (Kₐ = 3.5 x 10⁻⁴)

   Salts: NaOH  KCl  NH₄Br  KCN  KF

   a) NH₄Br < KCl < KF < KCN < NaOH
   b) NH₄Br < KCl < KCN < KF < NaOH
   c) NaOH < KCN < KF < KCl < NH₄Br
   d) NH₄Br < KCN < KCl < KF < NaOH
   e) None of the above