Arrange the following in increasing order of pH.

KNO3 (aq), CH3COONa (aq), NH4Cl (aq), C6H5COONH4 (aq)

 $KN0_3$: salt of strong acid-strong base, solution is neutral, pH = 7. CHjCOONa: salt of weak acid-strong base, solution is basic, pH > 7.

 NH_4CI : salt of strong acid-weak base, solution is acidic, pH < 7.

 $C_6H_5COONH_4$: both weak put NH₄OH is slightly stronger than C_6H_5COOH , pH close to 7 but slightly > 7.

Hence, in order of pH, $NH_4C1 < C_6H_5COONH_4 > KNO_3 < CH_3COONa$.