## Answer on Question \#71122 - Chemistry - Physical Chemistry

3 acids of ph $3,4,5$ respectively are mixed. What will be the concentration of $\mathrm{H}^{+}$ion in the mixture.

## Solution:

$\mathrm{pH}($ acid 1$)=3$
$\left[\mathrm{H}^{+}\right]=10^{-\mathrm{PH}}=10^{-3}$
pH (acid2) $=4$
$\left[\mathrm{H}^{+}\right]=10^{-\mathrm{pH}}=10^{-4}$
$\mathrm{pH}($ acid 3$)=5$
$\left[\mathrm{H}^{+}\right]=10^{-\mathrm{PH}}=10^{-5}$
$\left[\mathrm{H}^{+}\right]_{\text {mixture }}=10^{-3}+10^{-4}+10^{-5}=0.11 \times 10^{-3}$

