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

Solution:

pH (acid1) = 3 $[H^+] = 10^{-pH} = 10^{-3}$ pH (acid2) = 4 $[H^+] = 10^{-pH} = 10^{-4}$ pH(acid3) = 5 $[H^+] = 10^{-pH} = 10^{-5}$ $[H^+]_{mixture} = 10^{-3} + 10^{-4} + 10^{-5} = 0.11 \times 10^{-3}$

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