

CE06015 English for Water & Wastewater Engineering Major

Pre-examination

Part 1.

1. The pH of **2 M HCl** solution is **-0.3**. True or False
2. Calculate the pH of **0.001 M HCl** solution.
3. Calculate the pH of **0.01 M NaOH**.
4. How many grams of NaOH in one liter of **1 M NaOH** solution ($M.W._{NaOH} = 40$).

Part 2.

1. To neutralize **2 equivalent** of NaOH, how many equivalents of H_2SO_4 are needed.
2. For a water sample with a COD value of **150 mg/L**, estimate the TOC and BOD concentrations.
3. Write down the names of **common water quality parameters** for water and wastewater.

Part 3.

What is the difference between the conventional water treatment process and direct filtration process.