LAB PARTNER

LOCKER/DESK NO.

COURSE & SECTION NO.

Calculations,

1

& Dilute Solution of HCl. initial concentration: 0.1M. CIVI = (2 V Z (0.1M)(0.001L) = (0.001M(VZ) V2 = (0.1)(0.001) = 0.1L (0.001) distilled water.

& Adding o. col of O.IM HCI ro O.IL of distilled water will produce 0,001H HCI.

BUEFER SOLUTION: Iscolectric point = 4.44 prior buffer = 5.44 pkg = 4.75

5.44 = 4.75 ring (VB)

4.898 = VB/VX

(1)(4.898)(VA)=VB

@ VA + YB = 0.050L VB=0.050- VA 4.898VA = 0.050 - VA 5.898 V9 = 0.050L VA = 8.48 ~ 8.50m L 1. VB = 41.5 mL.

Y ERROR: pH meter: s. 49 calculation S.44

Actual - Theoretical x 100 Actual 5. 41 5.44 -5.39 x 100 = 0.88 1 Erro

Discussion! According to our percent error calculation, our pH had a 0.55 % error compared to the value measured by the pH meter. One source of error might have been the calibration or our pti meter. Forexample, instead of being at 7.00, it read 7.03. Also, during the gravity filtration, small particles of percipitate may have loaked into the solution, which should have been free of solid. Also, buret

roadings are subjective and include some degree of uncertaintie (effects calculation Buffer systems are extremely necessary in biological

systems. For example, the human body can only function within small

ranges of ptl. Thus,

SIGNATURE

DATE

WITNESS/TA