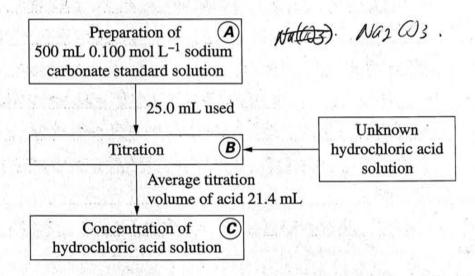
## 2010 HSC Chemistry

## Question 28 (8 marks)

The flowchart shown outlines the sequence of steps used to determine the concentration of an unknown hydrochloric acid solution.



Describe steps A, B and C including correct techniques, equipment and appropriate calculations. Determine the concentration of the hydrochloric acid.

Preparation of A standard solution. measure out O'I mol of Sodium carbonate solio using on grannethe electoric balance (10.5 place sodium carponate into a Goom L Volumo ask 20 Downe of diskilled water into volument ..... mer in volumetre fease and all of the Maz Os is dissolved to ensure it is dissolved 5 timos

**Question 28 continues on page 18** 

网络哈哈哈哈哈哈哈哈哈哈 可

**Question 28** 

2010 HSC Chemistry

Band 2/3 Sample 3

的过去式和过去分词来说,这些新闻的时候的情况,你能够出现。" 计算机分析法 Question 28 (continued) 5) fill up the Wandfric Alask with dish lad water till the etched mark (His sharelbe the bottom of the applisces. () rinse pipete with No2 103 solution tom standard nose out burette with untrown HCI Solution. Rive out anical flast / the with water Dipetter Duchy Jeme of standard solution mits & anital fla K, tapping gently on Side to endine + NG2 03 and Vansterred into ariso I flags all dops the with HCI Solution tilthe 200. per he top of burette and be Hel solution into conica flas gently cutt asqueable coor and the anwcint of HCI ased End of Question 28 Repeat Stops 1-8 Conculate the average amount of Her used, capq the wight tation value ratulations average mante volume of GEI used = 21.4ML Volume of Naz CO3 = 25mc Mol of Na203 = 0.5 = 0.5 ...... 0.025mol. NO2 03+2HCI (ag) 2 Na CI (ag) + H20 + CO2. Len a fuel: mor of HCI used- 0.025×2= 0.05. leve find: an centation of HCI = and MAL m = = 2.33644F ... = 2.3mol L-1

— 18 — © Board of Studies NSW 2010