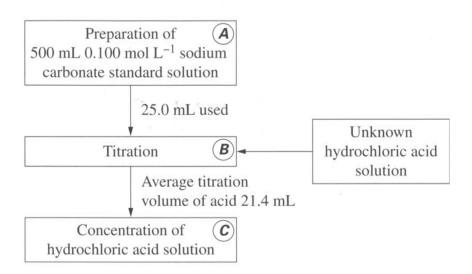
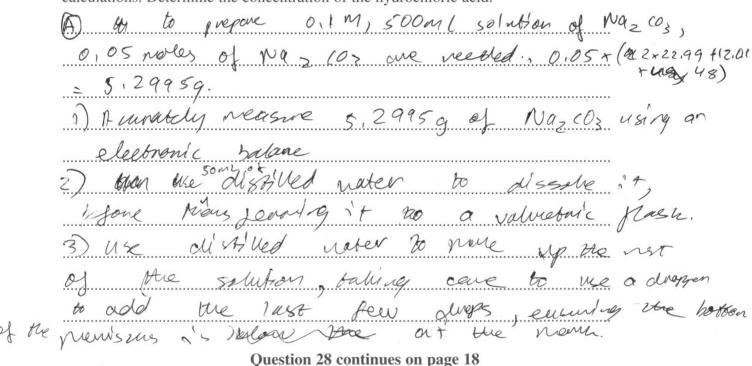
Question 28 (8 marks)

The flowchart shown outlines the sequence of steps used to determine the 8 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.



Question 28 (continued)
B) Well Set up as egulprent as snown:
Dimeter D) Chan brocke with ICI sourbles to
be used, before filling presoe
to man
sport bearing 2) UK the pipette to transfer
25.0 Ml of Naz Coz Salutdan
to neaver, match 3) Add noch sew duas of matthe
branathyral blue indicator
4) Offen Using top, add few dugge of
and at a the my to leaver, cominling
bearer constantly. As soon as solubles begins
to change colour record the amount of H Clared.
5) Empty heaver and brette and repeat reps
1 - 4
6) Recordall roulds
End of Question 28 Nesults.
(a) Calculatobas
2 HC 1 (ag) + Na 2 (03 (ae) -) 2 Na C (ag) H20(1) + (02/9)
own Enva Cava = \$64 (6 Vb x Z
(q = 2x 0,025 x 0,1)
0.0214
= 0. 2336 Mol L-'