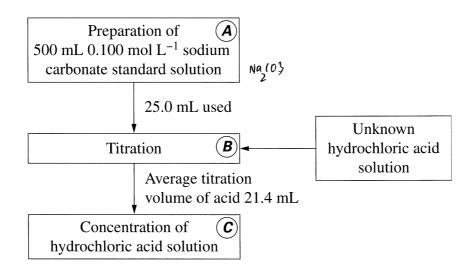
Question 28 (8 marks)

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.

```
Number groches g. Sodium carbox ctt. n = CV = 0.1 x 500 = 0.000 (mol)

Mass required to make chandlard solution = n M = 0.05 x (22.99 x 2. + 12.01 + 16x3)

= 5.5995 = 5.55 (9)

Stell Making Gaudard Solution

- Weight exactly 5.55 (9) g anhydrows addium conbarcete and trans. Lev.

H. to a clean braker ( use dessicator y recessary no remove all the moisture in

the substance

- Add 100 ml g water accel to discolve the sedium carbon at 14

fill Transfer the Solution Glowly into a clean relumentic Hask (500 ml).

- Use wash bottle to wash all the remeaning solutes into the flask
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Question 28 continues on page 18